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FIG. 1

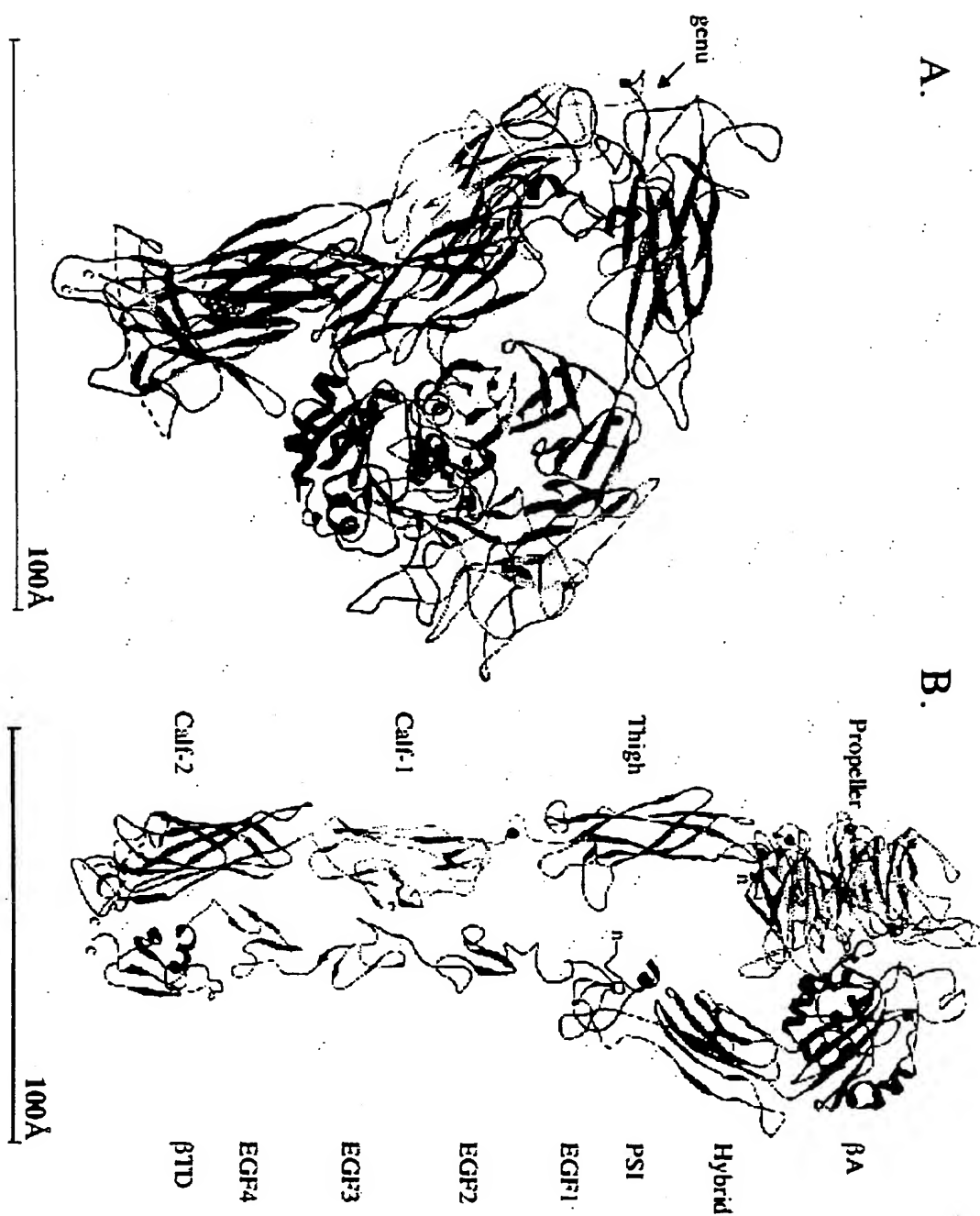


FIG. 2

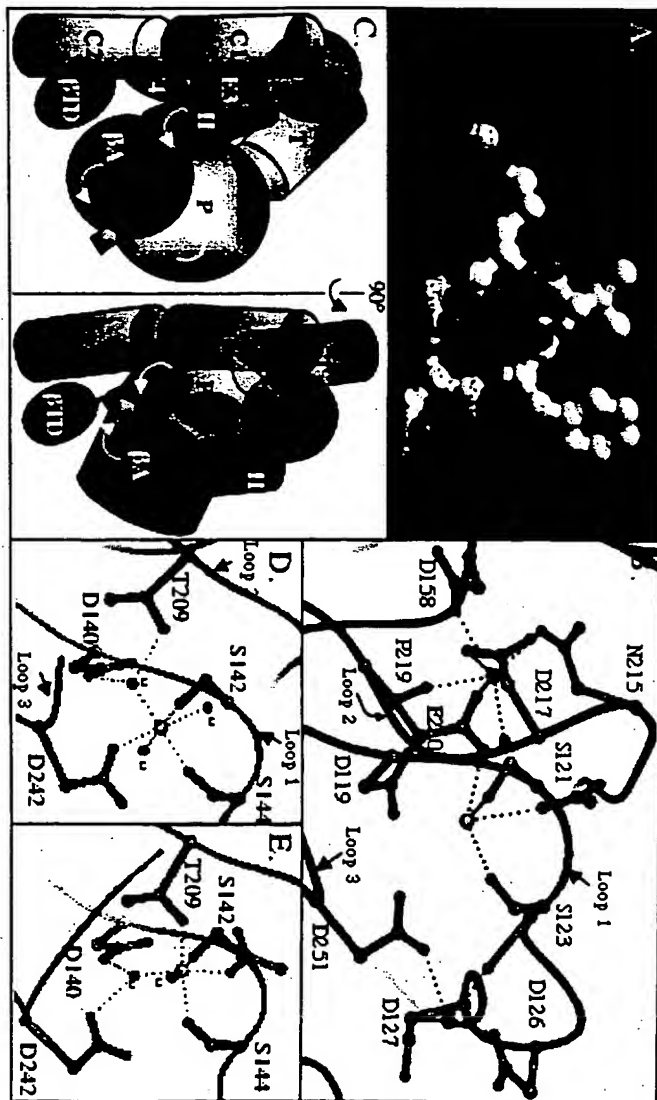


FIG. 3

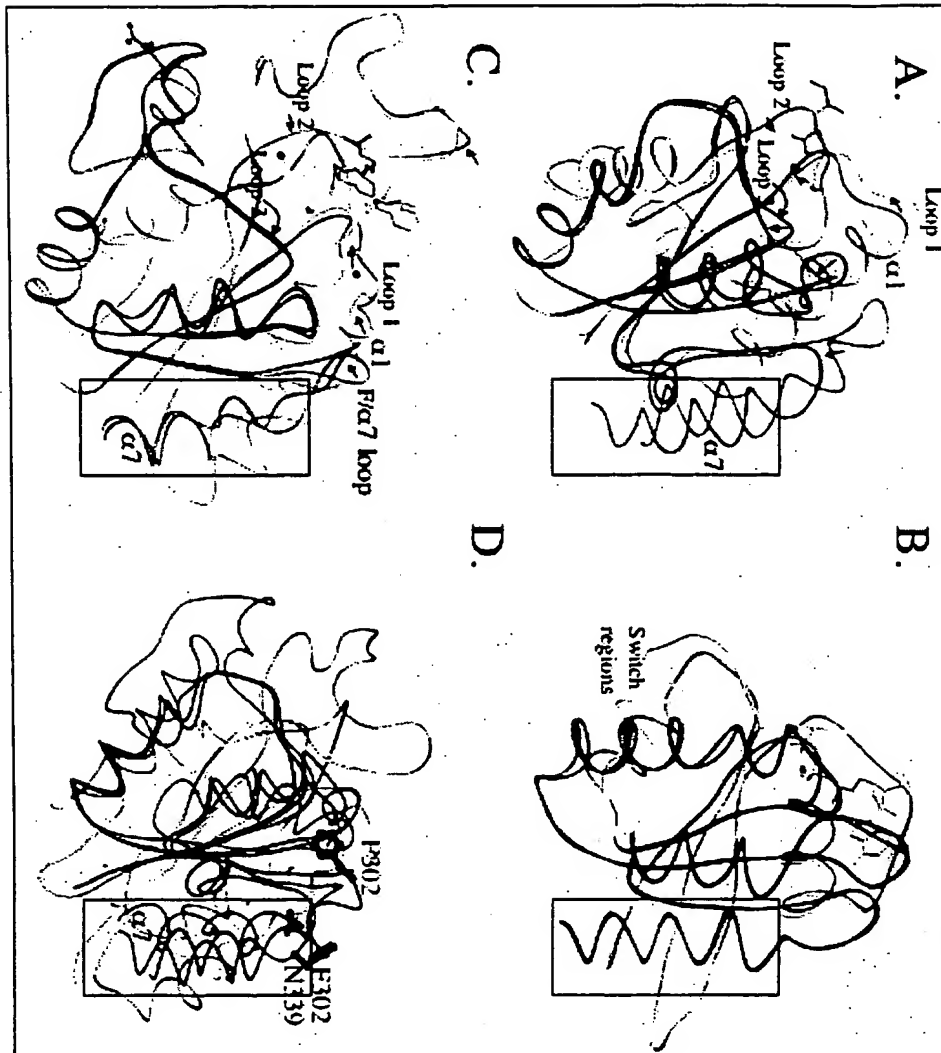


FIG. 4

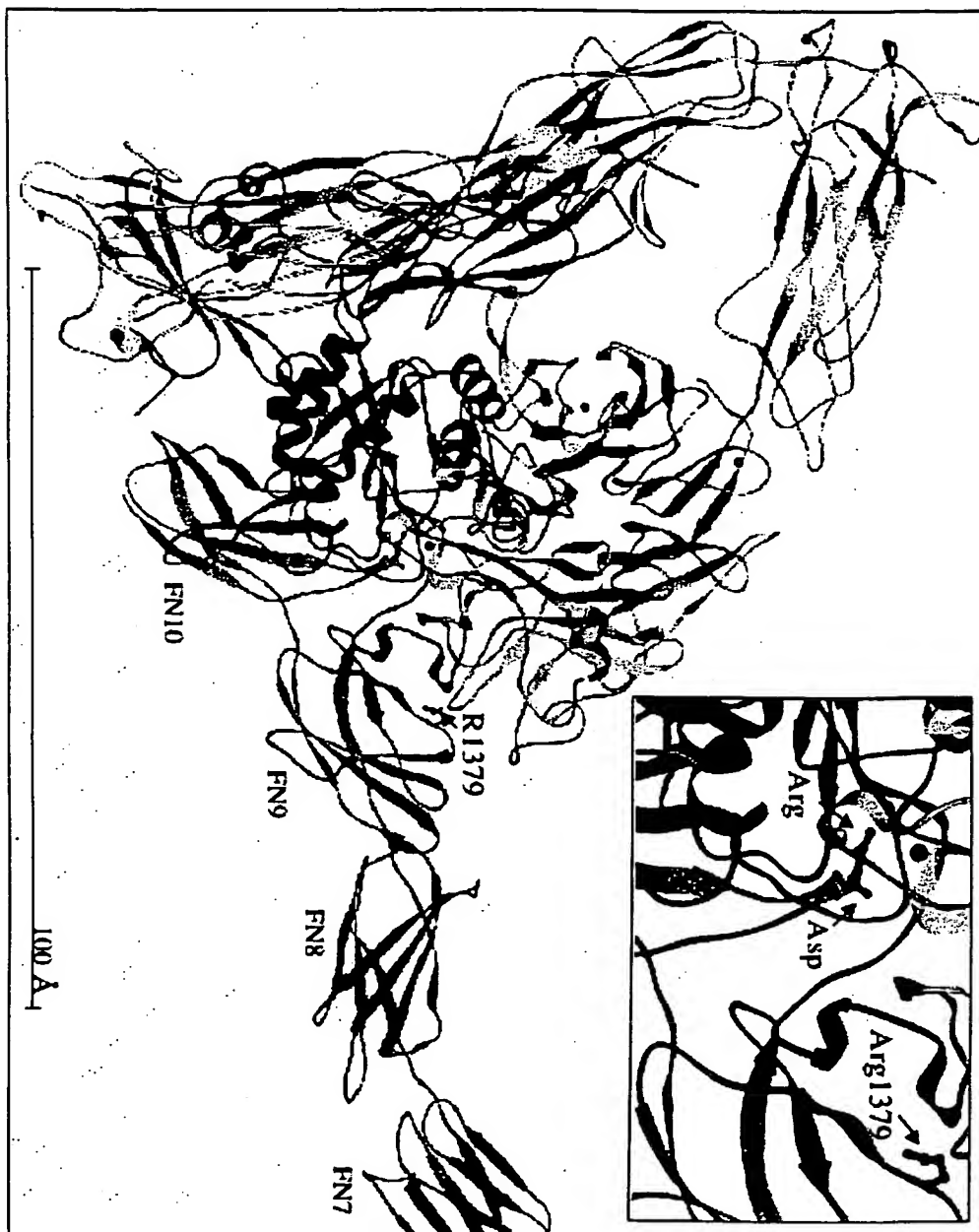


FIG. 5

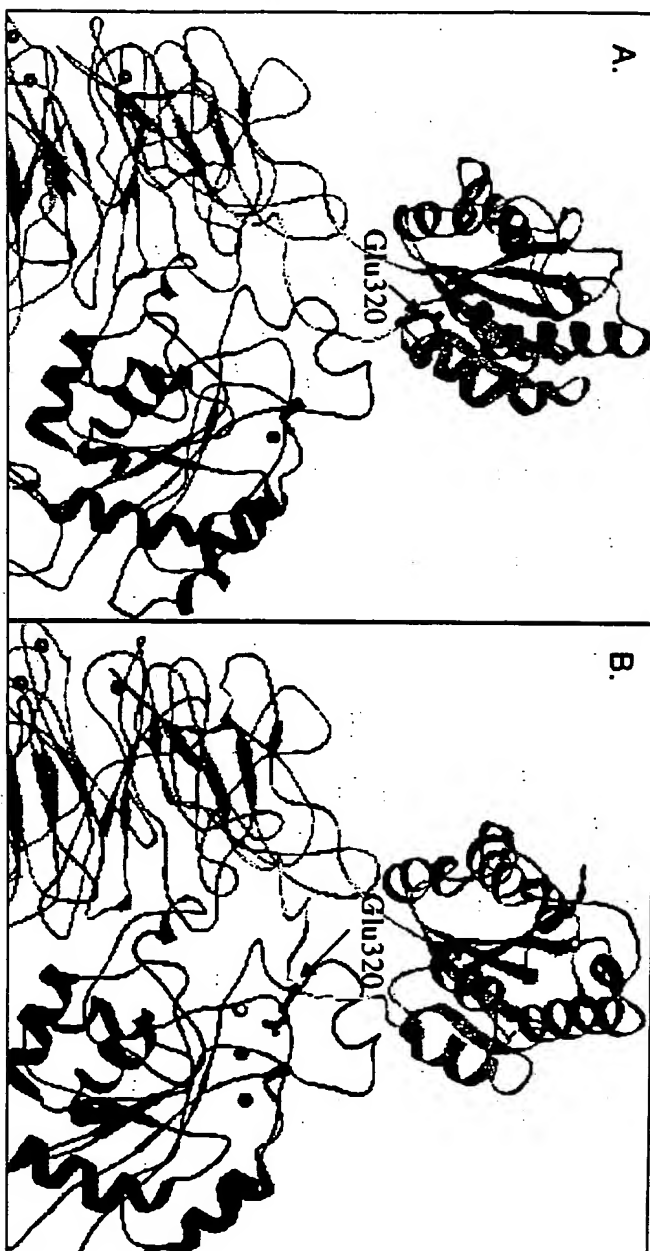


FIG. 6

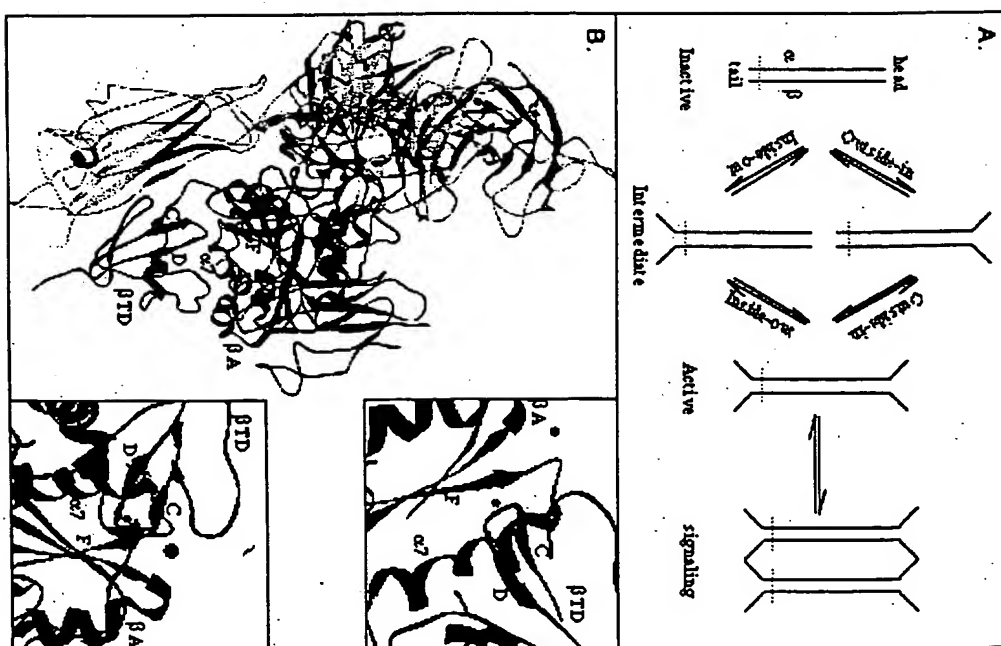


FIG. 7A

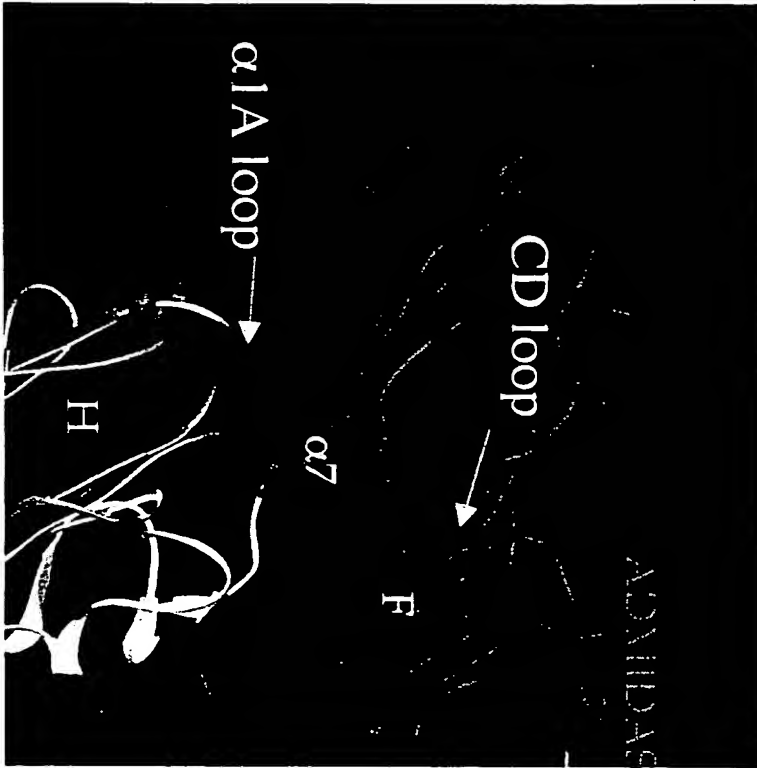


FIG. 7B

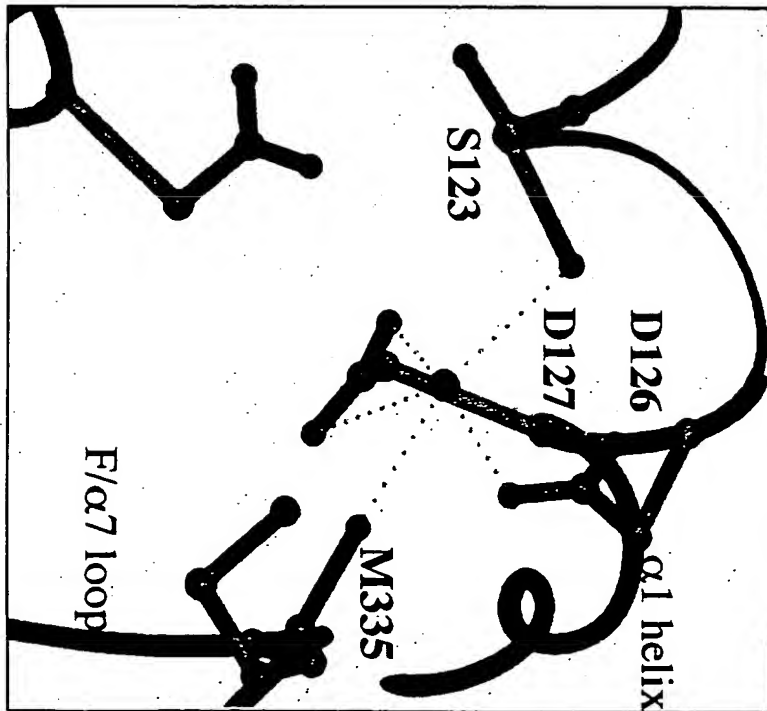
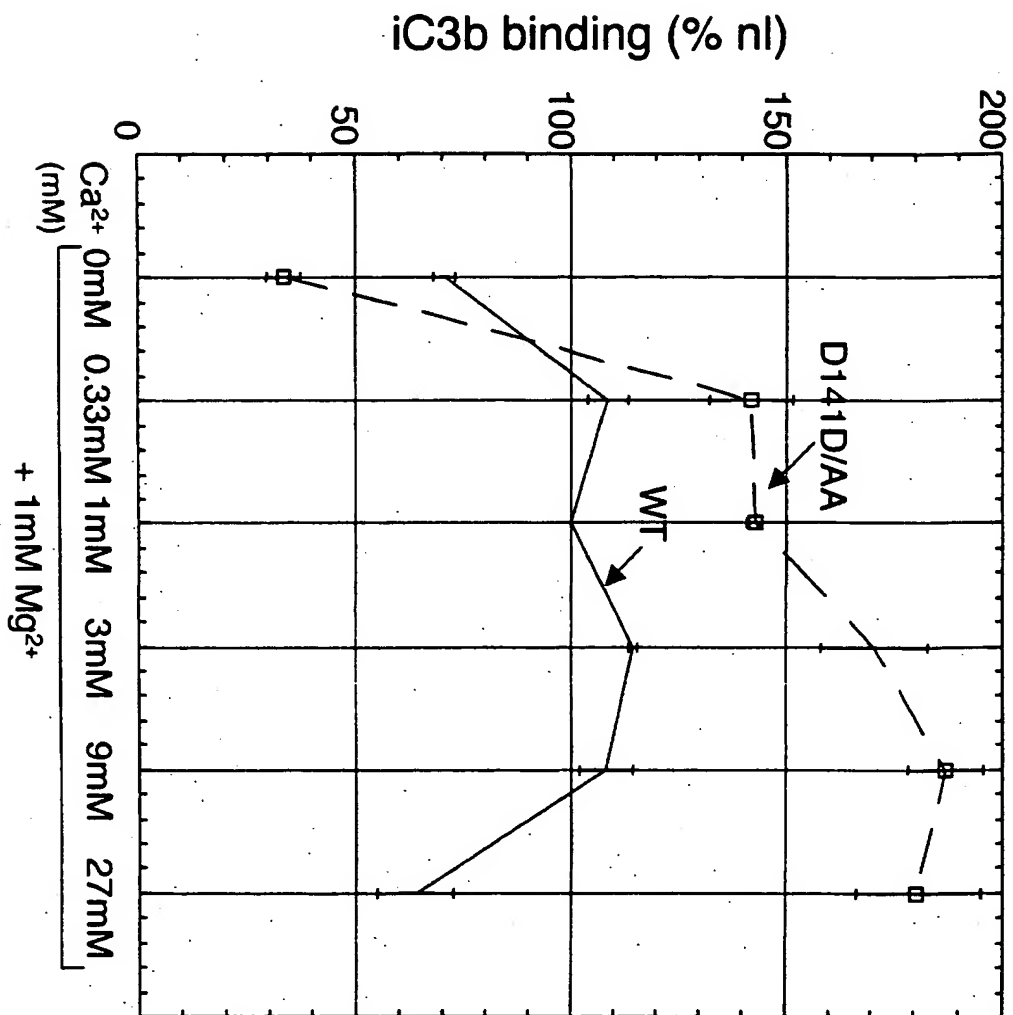


FIG. 8



APPLICATION
FOR
UNITED STATES LETTERS PATENT
FIGURE 9 (219 SHEETS)

TITLE: METHODS OF IDENTIFYING AND DESIGNING CELL
SURFACE RECEPTOR INHIBITORS

APPLICANT: M. AMIN ARNAOUT, THILO STEHLE, AND SIMON
GOODMAN

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No.

EL 964 756 707 US

Date of Deposit

January 30, 2004

Fig. 9

TABLE 1

REMARK FILENAME="./pdb/positional_6.pdb"

REMARK r= 0.219577 free_r= 0.317123

REMARK DATE:31-Oct-01 10:47:22 created by user: xiong

ATOM	1	N	PHE	1	-18.423	51.358	9.368	1.00	69.04
ATOM	2	CA	PHE	1	-18.746	49.959	9.080	1.00	66.59
ATOM	3	CB	PHE	1	-20.270	49.728	9.118	1.00	22.49
ATOM	4	CG	PHE	1	-20.997	50.290	7.923	1.00	15.15
ATOM	5	CD1	PHE	1	-21.599	51.545	7.989	1.00	11.04
ATOM	6	CD2	PHE	1	-21.012	49.596	6.712	1.00	2.00
ATOM	7	CE1	PHE	1	-22.190	52.108	6.869	1.00	12.30
ATOM	8	CE2	PHE	1	-21.601	50.151	5.580	1.00	11.65
ATOM	9	CZ	PHE	1	-22.190	51.408	5.656	1.00	9.41
ATOM	10	C	PHE	1	-18.215	49.541	7.708	1.00	62.17
ATOM	11	O	PHE	1	-18.358	48.387	7.298	1.00	9.82
ATOM	12	N	ASN	2	-17.714	50.499	6.941	1.00	47.93
ATOM	13	CA	ASN	2	-17.203	50.133	5.642	1.00	49.42
ATOM	14	CB	ASN	2	-18.314	49.818	4.658	1.00	52.02
ATOM	15	CG	ASN	2	-18.117	48.474	3.997	1.00	60.94
ATOM	16	OD1	ASN	2	-17.570	48.383	2.892	1.00	64.12
ATOM	17	ND2	ASN	2	-18.529	47.411	4.688	1.00	65.49
ATOM	18	C	ASN	2	-16.210	51.049	5.018	1.00	40.70
ATOM	19	O	ASN	2	-16.393	52.267	4.946	1.00	19.27
ATOM	20	N	LEU	3	-15.193	50.377	4.494	1.00	11.03
ATOM	21	CA	LEU	3	-14.049	50.966	3.848	1.00	11.40
ATOM	22	CB	LEU	3	-12.999	51.331	4.911	1.00	19.84
ATOM	23	CG	LEU	3	-12.536	50.273	5.916	1.00	12.77
ATOM	24	CD1	LEU	3	-11.200	49.739	5.482	1.00	2.00
ATOM	25	CD2	LEU	3	-12.415	50.877	7.294	1.00	2.46
ATOM	26	C	LEU	3	-13.500	49.926	2.892	1.00	9.88
ATOM	27	O	LEU	3	-13.563	48.726	3.166	1.00	23.32
ATOM	28	N	ASP	4	-12.958	50.407	1.779	1.00	19.94
ATOM	29	CA	ASP	4	-12.399	49.574	0.720	1.00	19.46
ATOM	30	CB	ASP	4	-11.821	50.482	-0.375	1.00	28.76
ATOM	31	CG	ASP	4	-10.630	49.868	-1.081	1.00	42.93
ATOM	32	OD1	ASP	4	-9.493	50.035	-0.575	1.00	51.73
ATOM	33	OD2	ASP	4	-10.836	49.221	-2.128	1.00	47.56
ATOM	34	C	ASP	4	-11.383	48.500	1.137	1.00	20.43
ATOM	35	O	ASP	4	-10.410	48.774	1.856	1.00	21.85
ATOM	36	N	VAL	5	-11.612	47.283	0.637	1.00	6.13
ATOM	37	CA	VAL	5	-10.748	46.128	0.901	1.00	5.84
ATOM	38	CB	VAL	5	-11.476	45.050	1.767	1.00	17.80
ATOM	39	CG1	VAL	5	-10.632	43.791	1.898	1.00	28.72
ATOM	40	CG2	VAL	5	-11.765	45.596	3.167	1.00	21.44
ATOM	41	C	VAL	5	-10.337	45.527	-0.442	1.00	7.84
ATOM	42	O	VAL	5	-9.429	44.690	-0.519	1.00	8.02
ATOM	43	N	ASP	6	-10.987	45.999	-1.502	1.00	17.97
ATOM	44	CA	ASP	6	-10.709	45.535	-2.855	1.00	34.94
ATOM	45	CB	ASP	6	-11.762	46.071	-3.838	1.00	74.92
ATOM	46	CG	ASP	6	-13.181	45.705	-3.447	1.00	87.74
ATOM	47	OD1	ASP	6	-13.870	46.567	-2.856	1.00	92.52
ATOM	48	OD2	ASP	6	-13.610	44.566	-3.740	1.00	90.14
ATOM	49	C	ASP	6	-9.340	46.044	-3.286	1.00	40.33
ATOM	50	O	ASP	6	-8.434	45.260	-3.602	1.00	67.92
ATOM	51	N	SER	7	-9.200	47.370	-3.253	1.00	61.38
ATOM	52	CA	SER	7	-7.978	48.053	-3.653	1.00	62.81

ATOM	53	CB	SER	7	-8.246	48.855	-4.930	1.00	91.34
ATOM	54	OG	SER	7	-7.122	49.631	-5.302	1.00	97.56
ATOM	55	C	SER	7	-7.395	48.973	-2.574	1.00	58.05
ATOM	56	O	SER	7	-7.641	50.178	-2.573	1.00	89.28
ATOM	57	N	PRO	8	-6.639	48.405	-1.622	1.00	65.37
ATOM	58	CD	PRO	8	-6.466	46.956	-1.407	1.00	45.03
ATOM	59	CA	PRO	8	-6.011	49.161	-0.536	1.00	63.37
ATOM	60	CB	PRO	8	-6.025	48.151	0.596	1.00	45.22
ATOM	61	CG	PRO	8	-5.647	46.897	-0.123	1.00	35.36
ATOM	62	C	PRO	8	-4.571	49.486	-0.960	1.00	61.37
ATOM	63	O	PRO	8	-4.075	48.895	-1.926	1.00	41.61
ATOM	64	N	ALA	9	-3.895	50.398	-0.254	1.00	25.75
ATOM	65	CA	ALA	9	-2.508	50.744	-0.614	1.00	24.95
ATOM	66	CB	ALA	9	-2.254	52.231	-0.428	1.00	74.36
ATOM	67	C	ALA	9	-1.451	49.925	0.125	1.00	22.69
ATOM	68	O	ALA	9	-1.288	50.043	1.337	1.00	65.27
ATOM	69	N	GLU	10	-0.726	49.102	-0.625	1.00	27.62
ATOM	70	CA	GLU	10	0.300	48.244	-0.051	1.00	30.00
ATOM	71	CB	GLU	10	0.349	46.906	-0.810	1.00	60.13
ATOM	72	CG	GLU	10	1.410	45.914	-0.338	1.00	76.58
ATOM	73	CD	GLU	10	2.523	45.698	-1.365	1.00	90.07
ATOM	74	OE1	GLU	10	2.215	45.558	-2.569	1.00	90.07
ATOM	75	OE2	GLU	10	3.709	45.660	-0.971	1.00	90.07
ATOM	76	C	GLU	10	1.651	48.938	-0.068	1.00	25.23
ATOM	77	O	GLU	10	2.026	49.564	-1.051	1.00	43.83
ATOM	78	N	TYR	11	2.354	48.871	1.053	1.00	38.61
ATOM	79	CA	TYR	11	3.668	49.480	1.161	1.00	27.56
ATOM	80	CB	TYR	11	3.617	50.694	2.076	1.00	18.97
ATOM	81	CG	TYR	11	2.864	51.851	1.481	1.00	31.47
ATOM	82	CD1	TYR	11	1.552	52.127	1.870	1.00	30.36
ATOM	83	CE1	TYR	11	0.843	53.182	1.316	1.00	31.24
ATOM	84	CD2	TYR	11	3.457	52.668	0.523	1.00	34.14
ATOM	85	CE2	TYR	11	2.756	53.731	-0.038	1.00	34.71
ATOM	86	CZ	TYR	11	1.447	53.985	0.362	1.00	33.97
ATOM	87	OH	TYR	11	0.745	55.032	-0.203	1.00	38.53
ATOM	88	C	TYR	11	4.613	48.445	1.726	1.00	31.31
ATOM	89	O	TYR	11	4.220	47.654	2.587	1.00	28.77
ATOM	90	N	SER	12	5.855	48.456	1.246	1.00	29.79
ATOM	91	CA	SER	12	6.864	47.499	1.689	1.00	34.16
ATOM	92	CB	SER	12	7.163	46.516	0.563	1.00	39.01
ATOM	93	OG	SER	12	7.484	47.218	-0.628	1.00	49.82
ATOM	94	C	SER	12	8.167	48.143	2.141	1.00	35.17
ATOM	95	O	SER	12	8.412	49.319	1.900	1.00	33.52
ATOM	96	N	GLY	13	9.001	47.338	2.786	1.00	39.84
ATOM	97	CA	GLY	13	10.288	47.790	3.277	1.00	41.23
ATOM	98	C	GLY	13	11.271	46.636	3.204	1.00	43.69
ATOM	99	O	GLY	13	10.909	45.553	2.743	1.00	87.16
ATOM	100	N	PRO	14	12.517	46.824	3.658	1.00	28.80
ATOM	101	CD	PRO	14	13.093	48.104	4.097	1.00	58.08
ATOM	102	CA	PRO	14	13.549	45.783	3.632	1.00	26.14
ATOM	103	CB	PRO	14	14.793	46.523	4.130	1.00	55.00
ATOM	104	CG	PRO	14	14.540	47.933	3.714	1.00	59.68
ATOM	105	C	PRO	14	13.264	44.563	4.498	1.00	26.43
ATOM	106	O	PRO	14	12.663	44.667	5.566	1.00	61.64
ATOM	107	N	GLU	15	13.750	43.414	4.029	1.00	21.42
ATOM	108	CA	GLU	15	13.601	42.126	4.709	1.00	17.94
ATOM	109	CB	GLU	15	14.217	41.009	3.856	1.00	69.88

ATOM	110	CG	GLU	15	15.556	41.402	3.222	1.00	99.72
ATOM	111	CD	GLU	15	16.545	40.253	3.137	1.00	100.00
ATOM	112	OE1	GLU	15	16.494	39.484	2.148	1.00	100.00
ATOM	113	OE2	GLU	15	17.384	40.134	4.059	1.00	100.00
ATOM	114	C	GLU	15	14.220	42.113	6.114	1.00	14.50
ATOM	115	O	GLU	15	15.437	41.959	6.275	1.00	51.19
ATOM	116	N	GLY	16	13.359	42.269	7.120	1.00	34.04
ATOM	117	CA	GLY	16	13.792	42.262	8.506	1.00	29.22
ATOM	118	C	GLY	16	13.993	43.646	9.089	1.00	29.37
ATOM	119	O	GLY	16	14.668	43.812	10.103	1.00	5.95
ATOM	120	N	SER	17	13.407	44.652	8.455	1.00	2.04
ATOM	121	CA	SER	17	13.560	46.009	8.942	1.00	2.04
ATOM	122	CB	SER	17	13.503	46.997	7.775	1.00	8.69
ATOM	123	OG	SER	17	12.174	47.392	7.504	1.00	12.04
ATOM	124	C	SER	17	12.473	46.341	9.944	1.00	2.04
ATOM	125	O	SER	17	12.551	47.357	10.624	1.00	4.75
ATOM	126	N	TYR	18	11.489	45.457	10.057	1.00	2.00
ATOM	127	CA	TYR	18	10.351	45.664	10.938	1.00	2.00
ATOM	128	CB	TYR	18	10.780	45.882	12.377	1.00	2.00
ATOM	129	CG	TYR	18	11.137	44.584	13.023	1.00	2.00
ATOM	130	CD1	TYR	18	10.957	44.389	14.392	1.00	2.51
ATOM	131	CE1	TYR	18	11.308	43.182	14.988	1.00	6.34
ATOM	132	CD2	TYR	18	11.670	43.536	12.261	1.00	2.00
ATOM	133	CE2	TYR	18	12.023	42.328	12.846	1.00	5.17
ATOM	134	CZ	TYR	18	11.844	42.155	14.210	1.00	13.05
ATOM	135	OH	TYR	18	12.235	40.972	14.797	1.00	20.57
ATOM	136	C	TYR	18	9.519	46.821	10.452	1.00	9.11
ATOM	137	O	TYR	18	8.853	47.513	11.234	1.00	18.09
ATOM	138	N	PHE	19	9.611	47.040	9.145	1.00	2.00
ATOM	139	CA	PHE	19	8.875	48.080	8.458	1.00	2.00
ATOM	140	CB	PHE	19	9.093	47.925	6.946	1.00	14.81
ATOM	141	CG	PHE	19	8.293	48.873	6.115	1.00	23.04
ATOM	142	CD1	PHE	19	6.965	48.600	5.812	1.00	38.02
ATOM	143	CD2	PHE	19	8.852	50.052	5.660	1.00	31.47
ATOM	144	CE1	PHE	19	6.205	49.490	5.069	1.00	48.11
ATOM	145	CE2	PHE	19	8.104	50.944	4.919	1.00	37.15
ATOM	146	CZ	PHE	19	6.774	50.665	4.625	1.00	40.32
ATOM	147	C	PHE	19	7.407	47.865	8.818	1.00	2.65
ATOM	148	O	PHE	19	6.892	46.746	8.716	1.00	30.65
ATOM	149	N	GLY	20	6.742	48.923	9.261	1.00	14.16
ATOM	150	CA	GLY	20	5.345	48.800	9.642	1.00	9.29
ATOM	151	C	GLY	20	5.185	48.459	11.112	1.00	9.08
ATOM	152	O	GLY	20	4.133	47.975	11.521	1.00	38.99
ATOM	153	N	PHE	21	6.238	48.689	11.899	1.00	2.00
ATOM	154	CA	PHE	21	6.206	48.426	13.329	1.00	2.00
ATOM	155	CB	PHE	21	7.598	48.129	13.837	1.00	2.00
ATOM	156	CG	PHE	21	7.630	47.731	15.269	1.00	2.00
ATOM	157	CD1	PHE	21	7.447	46.418	15.634	1.00	4.05
ATOM	158	CD2	PHE	21	7.845	48.663	16.257	1.00	2.00
ATOM	159	CE1	PHE	21	7.489	46.042	16.961	1.00	2.00
ATOM	160	CE2	PHE	21	7.887	48.289	17.573	1.00	2.00
ATOM	161	CZ	PHE	21	7.707	46.979	17.925	1.00	2.00
ATOM	162	C	PHE	21	5.621	49.619	14.084	1.00	2.00
ATOM	163	O	PHE	21	5.180	49.511	15.222	1.00	2.02
ATOM	164	N	ALA	22	5.650	50.777	13.448	1.00	7.51
ATOM	165	CA	ALA	22	5.100	51.983	14.048	1.00	8.31
ATOM	166	CB	ALA	22	6.162	52.731	14.815	1.00	5.15

ATOM	167	C	ALA	22	4.577	52.824	12.906	1.00	21.01
ATOM	168	O	ALA	22	5.342	53.301	12.063	1.00	22.44
ATOM	169	N	VAL	23	3.259	52.946	12.841	1.00	23.19
ATOM	170	CA	VAL	23	2.656	53.713	11.775	1.00	25.98
ATOM	171	CB	VAL	23	1.685	52.837	10.908	1.00	4.05
ATOM	172	CG1	VAL	23	2.480	51.774	10.136	1.00	6.17
ATOM	173	CG2	VAL	23	0.639	52.169	11.768	1.00	4.67
ATOM	174	C	VAL	23	1.961	54.968	12.279	1.00	29.17
ATOM	175	O	VAL	23	1.554	55.039	13.447	1.00	2.54
ATOM	176	N	ASP	24	1.969	55.995	11.427	1.00	15.48
ATOM	177	CA	ASP	24	1.306	57.257	11.705	1.00	15.40
ATOM	178	CB	ASP	24	2.087	58.141	12.671	1.00	15.30
ATOM	179	CG	ASP	24	1.163	59.064	13.484	1.00	31.08
ATOM	180	OD1	ASP	24	0.499	59.958	12.913	1.00	36.19
ATOM	181	OD2	ASP	24	1.070	58.878	14.710	1.00	47.26
ATOM	182	C	ASP	24	1.055	58.009	10.414	1.00	18.18
ATOM	183	O	ASP	24	1.552	57.611	9.348	1.00	2.88
ATOM	184	N	PHE	25	0.208	59.039	10.524	1.00	22.24
ATOM	185	CA	PHE	25	-0.182	59.931	9.427	1.00	23.49
ATOM	186	CB	PHE	25	-1.667	60.285	9.522	1.00	29.31
ATOM	187	CG	PHE	25	-2.592	59.260	8.931	1.00	27.27
ATOM	188	CD1	PHE	25	-3.398	58.480	9.750	1.00	20.83
ATOM	189	CD2	PHE	25	-2.709	59.124	7.553	1.00	27.27
ATOM	190	CE1	PHE	25	-4.301	57.591	9.205	1.00	20.19
ATOM	191	CE2	PHE	25	-3.615	58.234	7.000	1.00	13.95
ATOM	192	CZ	PHE	25	-4.410	57.469	7.825	1.00	14.32
ATOM	193	C	PHE	25	0.588	61.243	9.508	1.00	28.53
ATOM	194	O	PHE	25	0.708	61.842	10.581	1.00	36.78
ATOM	195	N	PHE	26	1.064	61.715	8.363	1.00	47.59
ATOM	196	CA	PHE	26	1.791	62.974	8.321	1.00	45.55
ATOM	197	CB	PHE	26	3.168	62.784	7.677	1.00	28.90
ATOM	198	CG	PHE	26	4.046	64.001	7.750	1.00	29.59
ATOM	199	CD1	PHE	26	4.808	64.391	6.651	1.00	29.84
ATOM	200	CD2	PHE	26	4.091	64.776	8.911	1.00	26.36
ATOM	201	CE1	PHE	26	5.598	65.529	6.702	1.00	22.78
ATOM	202	CE2	PHE	26	4.880	65.919	8.970	1.00	26.77
ATOM	203	CZ	PHE	26	5.633	66.295	7.862	1.00	24.77
ATOM	204	C	PHE	26	0.973	64.020	7.560	1.00	47.65
ATOM	205	O	PHE	26	0.728	63.892	6.360	1.00	37.52
ATOM	206	N	VAL	27	0.524	65.039	8.282	1.00	12.79
ATOM	207	CA	VAL	27	-0.265	66.108	7.696	1.00	17.96
ATOM	208	CB	VAL	27	-1.713	66.077	8.264	1.00	94.62
ATOM	209	CG1	VAL	27	-1.697	66.047	9.796	1.00	100.00
ATOM	210	CG2	VAL	27	-2.518	67.253	7.745	1.00	100.00
ATOM	211	C	VAL	27	0.423	67.466	7.946	1.00	15.00
ATOM	212	O	VAL	27	0.201	68.115	8.972	1.00	89.02
ATOM	213	N	PRO	28	1.301	67.895	7.018	1.00	31.94
ATOM	214	CD	PRO	28	1.684	67.230	5.767	1.00	22.03
ATOM	215	CA	PRO	28	2.015	69.168	7.146	1.00	28.51
ATOM	216	CB	PRO	28	2.912	69.173	5.909	1.00	19.14
ATOM	217	CG	PRO	28	3.066	67.745	5.578	1.00	12.08
ATOM	218	C	PRO	28	1.033	70.327	7.070	1.00	31.68
ATOM	219	O	PRO	28	-0.061	70.166	6.527	1.00	35.28
ATOM	220	N	SER	29	1.397	71.478	7.631	1.00	64.15
ATOM	221	CA	SER	29	0.531	72.661	7.562	1.00	60.14
ATOM	222	CB	SER	29	0.671	73.534	8.813	1.00	35.55
ATOM	223	OG	SER	29	1.883	74.277	8.789	1.00	42.78

ATOM	224	C	SER	29	0.991	73.461	6.349	1.00	53.48
ATOM	225	O	SER	29	0.238	74.258	5.778	1.00	24.23
ATOM	226	N	ALA	30	2.240	73.199	5.967	1.00	46.68
ATOM	227	CA	ALA	30	2.917	73.846	4.850	1.00	53.50
ATOM	228	CB	ALA	30	4.422	73.817	5.106	1.00	22.37
ATOM	229	C	ALA	30	2.613	73.296	3.444	1.00	57.35
ATOM	230	O	ALA	30	3.202	73.756	2.459	1.00	29.03
ATOM	231	N	SER	31	1.721	72.310	3.348	1.00	57.39
ATOM	232	CA	SER	31	1.370	71.724	2.053	1.00	59.39
ATOM	233	CB	SER	31	2.320	70.590	1.679	1.00	33.15
ATOM	234	OG	SER	31	1.984	70.081	0.400	1.00	27.01
ATOM	235	C	SER	31	-0.058	71.213	1.943	1.00	57.64
ATOM	236	O	SER	31	-0.741	70.959	2.946	1.00	31.54
ATOM	237	N	SER	32	-0.486	71.034	0.698	1.00	18.48
ATOM	238	CA	SER	32	-1.825	70.560	0.416	1.00	24.14
ATOM	239	CB	SER	32	-2.230	70.944	-1.009	1.00	79.08
ATOM	240	OG	SER	32	-1.359	70.360	-1.963	1.00	83.81
ATOM	241	C	SER	32	-1.910	69.052	0.594	1.00	24.90
ATOM	242	O	SER	32	-2.959	68.522	0.975	1.00	77.78
ATOM	243	N	ARG	33	-0.795	68.368	0.354	1.00	39.09
ATOM	244	CA	ARG	33	-0.775	66.920	0.468	1.00	40.36
ATOM	245	CB	ARG	33	0.036	66.313	-0.671	1.00	29.29
ATOM	246	CG	ARG	33	1.472	66.756	-0.772	1.00	32.28
ATOM	247	CD	ARG	33	2.058	66.110	-2.013	1.00	54.88
ATOM	248	NE	ARG	33	3.510	66.217	-2.104	1.00	70.01
ATOM	249	CZ	ARG	33	4.284	65.328	-2.725	1.00	78.97
ATOM	250	NH1	ARG	33	3.738	64.264	-3.307	1.00	75.60
ATOM	251	NH2	ARG	33	5.603	65.499	-2.766	1.00	78.97
ATOM	252	C	ARG	33	-0.392	66.306	1.817	1.00	41.36
ATOM	253	O	ARG	33	0.148	66.977	2.701	1.00	46.48
ATOM	254	N	MET	34	-0.751	65.031	1.972	1.00	31.83
ATOM	255	CA	MET	34	-0.494	64.262	3.188	1.00	19.36
ATOM	256	CB	MET	34	-1.819	63.869	3.847	1.00	6.41
ATOM	257	CG	MET	34	-2.667	65.056	4.282	1.00	16.72
ATOM	258	SD	MET	34	-4.425	64.666	4.426	1.00	32.71
ATOM	259	CE	MET	34	-4.707	64.951	6.185	1.00	29.27
ATOM	260	C	MET	34	0.363	63.022	2.886	1.00	17.05
ATOM	261	O	MET	34	0.449	62.584	1.727	1.00	8.61
ATOM	262	N	PHE	35	0.980	62.459	3.930	1.00	2.00
ATOM	263	CA	PHE	35	1.888	61.314	3.780	1.00	6.84
ATOM	264	CB	PHE	35	3.352	61.789	3.862	1.00	25.62
ATOM	265	CG	PHE	35	3.735	62.794	2.821	1.00	29.37
ATOM	266	CD1	PHE	35	3.250	64.099	2.882	1.00	25.37
ATOM	267	CD2	PHE	35	4.537	62.419	1.747	1.00	34.41
ATOM	268	CE1	PHE	35	3.545	65.013	1.890	1.00	25.90
ATOM	269	CE2	PHE	35	4.845	63.320	0.744	1.00	25.42
ATOM	270	CZ	PHE	35	4.343	64.623	0.813	1.00	31.26
ATOM	271	C	PHE	35	1.739	60.212	4.817	1.00	14.96
ATOM	272	O	PHE	35	0.967	60.322	5.774	1.00	33.52
ATOM	273	N	LEU	36	2.581	59.195	4.653	1.00	28.67
ATOM	274	CA	LEU	36	2.629	58.050	5.548	1.00	27.16
ATOM	275	CB	LEU	36	2.566	56.749	4.753	1.00	22.34
ATOM	276	CG	LEU	36	1.257	55.965	4.798	1.00	27.32
ATOM	277	CD1	LEU	36	0.203	56.643	3.932	1.00	23.00
ATOM	278	CD2	LEU	36	1.519	54.542	4.333	1.00	26.23
ATOM	279	C	LEU	36	3.917	58.042	6.360	1.00	25.86
ATOM	280	O	LEU	36	4.997	58.348	5.841	1.00	29.55

ATOM	281	N	LEU	37	3.805	57.649	7.626	1.00	14.22
ATOM	282	CA	LEU	37	4.973	57.575	8.498	1.00	13.52
ATOM	283	CB	LEU	37	4.853	58.567	9.645	1.00	18.30
ATOM	284	CG	LEU	37	4.863	60.014	9.172	1.00	12.91
ATOM	285	CD1	LEU	37	4.835	60.924	10.395	1.00	2.00
ATOM	286	CD2	LEU	37	6.091	60.254	8.281	1.00	2.00
ATOM	287	C	LEU	37	5.129	56.162	9.017	1.00	13.11
ATOM	288	O	LEU	37	4.437	55.732	9.929	1.00	6.93
ATOM	289	N	VAL	38	6.086	55.458	8.444	1.00	2.00
ATOM	290	CA	VAL	38	6.302	54.076	8.796	1.00	2.00
ATOM	291	CB	VAL	38	5.963	53.181	7.548	1.00	9.36
ATOM	292	CG1	VAL	38	6.129	51.711	7.862	1.00	23.81
ATOM	293	CG2	VAL	38	4.528	53.456	7.068	1.00	19.44
ATOM	294	C	VAL	38	7.711	53.809	9.364	1.00	2.00
ATOM	295	O	VAL	38	8.727	54.125	8.745	1.00	2.00
ATOM	296	N	GLY	39	7.743	53.233	10.563	1.00	13.60
ATOM	297	CA	GLY	39	9.000	52.927	11.221	1.00	10.12
ATOM	298	C	GLY	39	9.617	51.586	10.866	1.00	7.65
ATOM	299	O	GLY	39	8.920	50.567	10.825	1.00	12.37
ATOM	300	N	ALA	40	10.932	51.592	10.638	1.00	2.00
ATOM	301	CA	ALA	40	11.694	50.396	10.306	1.00	2.00
ATOM	302	CB	ALA	40	12.327	50.569	8.972	1.00	2.00
ATOM	303	C	ALA	40	12.769	50.179	11.375	1.00	2.00
ATOM	304	O	ALA	40	13.957	50.104	11.058	1.00	2.00
ATOM	305	N	PRO	41	12.346	49.929	12.636	1.00	4.00
ATOM	306	CD	PRO	41	10.962	49.584	13.010	1.00	5.02
ATOM	307	CA	PRO	41	13.219	49.716	13.790	1.00	2.00
ATOM	308	CB	PRO	41	12.293	49.050	14.796	1.00	7.32
ATOM	309	CG	PRO	41	11.011	49.682	14.508	1.00	6.53
ATOM	310	C	PRO	41	14.474	48.918	13.590	1.00	3.85
ATOM	311	O	PRO	41	15.414	49.069	14.368	1.00	19.21
ATOM	312	N	LYS	42	14.515	48.068	12.570	1.00	2.00
ATOM	313	CA	LYS	42	15.717	47.268	12.351	1.00	2.00
ATOM	314	CB	LYS	42	15.420	45.787	12.557	1.00	2.00
ATOM	315	CG	LYS	42	15.272	45.401	14.019	1.00	2.00
ATOM	316	CD	LYS	42	15.143	43.894	14.194	1.00	2.00
ATOM	317	CE	LYS	42	15.110	43.523	15.667	1.00	2.69
ATOM	318	NZ	LYS	42	14.730	42.099	15.915	1.00	17.62
ATOM	319	C	LYS	42	16.452	47.502	11.038	1.00	4.98
ATOM	320	O	LYS	42	17.365	46.759	10.692	1.00	18.07
ATOM	321	N	ALA	43	16.106	48.581	10.345	1.00	19.67
ATOM	322	CA	ALA	43	16.751	48.909	9.081	1.00	22.36
ATOM	323	CB	ALA	43	15.924	49.905	8.333	1.00	2.00
ATOM	324	C	ALA	43	18.193	49.422	9.218	1.00	27.29
ATOM	325	O	ALA	43	18.512	50.236	10.091	1.00	7.94
ATOM	326	N	ASN	44	19.058	48.932	8.337	1.00	21.86
ATOM	327	CA	ASN	44	20.455	49.330	8.320	1.00	15.53
ATOM	328	CB	ASN	44	21.282	48.366	7.468	1.00	21.39
ATOM	329	CG	ASN	44	21.812	47.198	8.273	1.00	31.00
ATOM	330	OD1	ASN	44	22.193	47.372	9.433	1.00	39.93
ATOM	331	ND2	ASN	44	21.831	46.005	7.686	1.00	29.73
ATOM	332	C	ASN	44	20.567	50.740	7.784	1.00	18.07
ATOM	333	O	ASN	44	19.686	51.219	7.072	1.00	31.81
ATOM	334	N	THR	45	21.657	51.406	8.136	1.00	76.01
ATOM	335	CA	THR	45	21.867	52.777	7.709	1.00	73.52
ATOM	336	CB	THR	45	21.431	53.772	8.803	1.00	30.68
ATOM	337	OG1	THR	45	21.881	53.301	10.081	1.00	30.72

ATOM	338	CG2	THR	45	19.923	53.927	8.819	1.00	22.94
ATOM	339	C	THR	45	23.293	53.112	7.316	1.00	77.89
ATOM	340	O	THR	45	24.232	52.326	7.505	1.00	48.59
ATOM	341	N	THR	46	23.425	54.327	6.802	1.00	32.61
ATOM	342	CA	THR	46	24.691	54.879	6.352	1.00	34.20
ATOM	343	CB	THR	46	24.500	55.644	5.059	1.00	34.00
ATOM	344	OG1	THR	46	23.205	56.260	5.073	1.00	34.83
ATOM	345	CG2	THR	46	24.622	54.693	3.859	1.00	43.54
ATOM	346	C	THR	46	25.342	55.771	7.402	1.00	30.60
ATOM	347	O	THR	46	26.037	56.745	7.087	1.00	32.69
ATOM	348	N	GLN	47	25.025	55.474	8.656	1.00	25.04
ATOM	349	CA	GLN	47	25.617	56.167	9.784	1.00	22.84
ATOM	350	CB	GLN	47	24.675	56.151	10.995	1.00	6.97
ATOM	351	CG	GLN	47	23.246	56.653	10.725	1.00	14.92
ATOM	352	CD	GLN	47	22.299	56.403	11.901	1.00	26.26
ATOM	353	OE1	GLN	47	22.540	56.852	13.030	1.00	30.80
ATOM	354	NE2	GLN	47	21.219	55.671	11.639	1.00	25.94
ATOM	355	C	GLN	47	26.823	55.255	10.041	1.00	30.76
ATOM	356	O	GLN	47	26.686	54.026	10.065	1.00	30.27
ATOM	357	N	PRO	48	28.030	55.834	10.126	1.00	49.09
ATOM	358	CD	PRO	48	28.299	57.268	9.925	1.00	40.04
ATOM	359	CA	PRO	48	29.281	55.107	10.364	1.00	46.22
ATOM	360	CB	PRO	48	30.262	56.234	10.670	1.00	45.17
ATOM	361	CG	PRO	48	29.803	57.291	9.751	1.00	37.45
ATOM	362	C	PRO	48	29.269	54.061	11.482	1.00	45.13
ATOM	363	O	PRO	48	29.012	54.373	12.651	1.00	36.27
ATOM	364	N	GLY	49	29.551	52.819	11.096	1.00	50.46
ATOM	365	CA	GLY	49	29.616	51.713	12.041	1.00	54.30
ATOM	366	C	GLY	49	28.357	51.362	12.804	1.00	50.63
ATOM	367	O	GLY	49	28.425	50.651	13.809	1.00	27.97
ATOM	368	N	ILE	50	27.213	51.829	12.310	1.00	76.50
ATOM	369	CA	ILE	50	25.929	51.575	12.947	1.00	74.32
ATOM	370	CB	ILE	50	25.112	52.870	13.101	1.00	24.93
ATOM	371	CG2	ILE	50	23.855	52.608	13.902	1.00	31.94
ATOM	372	CG1	ILE	50	25.936	53.920	13.834	1.00	24.51
ATOM	373	CD1	ILE	50	26.458	53.431	15.163	1.00	22.12
ATOM	374	C	ILE	50	25.090	50.540	12.209	1.00	80.32
ATOM	375	O	ILE	50	24.570	50.793	11.110	1.00	41.62
ATOM	376	N	VAL	51	24.955	49.381	12.847	1.00	27.14
ATOM	377	CA	VAL	51	24.181	48.265	12.316	1.00	20.85
ATOM	378	CB	VAL	51	24.793	46.937	12.728	1.00	11.87
ATOM	379	CG1	VAL	51	24.478	45.882	11.679	1.00	24.29
ATOM	380	CG2	VAL	51	26.288	47.103	12.955	1.00	14.69
ATOM	381	C	VAL	51	22.736	48.310	12.821	1.00	20.35
ATOM	382	O	VAL	51	22.470	48.258	14.029	1.00	2.00
ATOM	383	N	GLU	52	21.807	48.432	11.881	1.00	64.99
ATOM	384	CA	GLU	52	20.394	48.495	12.207	1.00	61.89
ATOM	385	CB	GLU	52	19.897	47.144	12.709	1.00	27.93
ATOM	386	CG	GLU	52	20.051	46.008	11.733	1.00	38.82
ATOM	387	CD	GLU	52	19.654	44.680	12.346	1.00	48.05
ATOM	388	OE1	GLU	52	18.863	44.680	13.316	1.00	60.62
ATOM	389	OE2	GLU	52	20.138	43.633	11.866	1.00	56.51
ATOM	390	C	GLU	52	20.118	49.566	13.254	1.00	52.35
ATOM	391	O	GLU	52	19.789	49.267	14.405	1.00	21.09
ATOM	392	N	GLY	53	20.360	50.812	12.876	1.00	4.04
ATOM	393	CA	GLY	53	20.077	51.908	13.781	1.00	11.40
ATOM	394	C	GLY	53	18.590	52.177	13.632	1.00	7.83

ATOM	395	O	GLY	53	17.959	52.841	14.461	1.00	2.00
ATOM	396	N	GLY	54	18.032	51.618	12.560	1.00	2.00
ATOM	397	CA	GLY	54	16.623	51.771	12.264	1.00	3.65
ATOM	398	C	GLY	54	16.337	53.099	11.603	1.00	2.00
ATOM	399	O	GLY	54	17.230	53.941	11.458	1.00	33.38
ATOM	400	N	GLN	55	15.092	53.273	11.173	1.00	9.31
ATOM	401	CA	GLN	55	14.667	54.515	10.550	1.00	8.91
ATOM	402	CB	GLN	55	15.245	54.635	9.153	1.00	11.10
ATOM	403	CG	GLN	55	15.109	53.410	8.326	1.00	32.53
ATOM	404	CD	GLN	55	15.995	53.487	7.120	1.00	45.27
ATOM	405	OE1	GLN	55	15.536	53.787	6.022	1.00	46.79
ATOM	406	NE2	GLN	55	17.288	53.251	7.320	1.00	55.07
ATOM	407	C	GLN	55	13.163	54.723	10.528	1.00	9.76
ATOM	408	O	GLN	55	12.414	54.027	11.209	1.00	14.94
ATOM	409	N	VAL	56	12.743	55.735	9.785	1.00	3.35
ATOM	410	CA	VAL	56	11.342	56.099	9.643	1.00	9.25
ATOM	411	CB	VAL	56	10.967	57.287	10.575	1.00	7.14
ATOM	412	CG1	VAL	56	9.598	57.855	10.217	1.00	13.26
ATOM	413	CG2	VAL	56	10.995	56.839	12.024	1.00	19.00
ATOM	414	C	VAL	56	11.214	56.537	8.200	1.00	17.53
ATOM	415	O	VAL	56	12.062	57.273	7.692	1.00	29.29
ATOM	416	N	LEU	57	10.170	56.075	7.527	1.00	22.81
ATOM	417	CA	LEU	57	10.002	56.434	6.140	1.00	23.79
ATOM	418	CB	LEU	57	10.135	55.200	5.262	1.00	2.00
ATOM	419	CG	LEU	57	11.383	54.399	5.650	1.00	2.00
ATOM	420	CD1	LEU	57	11.031	53.423	6.748	1.00	2.00
ATOM	421	CD2	LEU	57	11.945	53.629	4.480	1.00	2.00
ATOM	422	C	LEU	57	8.714	57.178	5.879	1.00	35.74
ATOM	423	O	LEU	57	7.670	56.900	6.485	1.00	21.62
ATOM	424	N	LYS	58	8.838	58.206	5.047	1.00	20.36
ATOM	425	CA	LYS	58	7.706	59.025	4.673	1.00	28.04
ATOM	426	CB	LYS	58	8.134	60.485	4.526	1.00	51.57
ATOM	427	CG	LYS	58	6.988	61.445	4.232	1.00	53.59
ATOM	428	CD	LYS	58	7.394	62.909	4.420	1.00	61.43
ATOM	429	CE	LYS	58	8.441	63.367	3.411	1.00	68.91
ATOM	430	NZ	LYS	58	8.885	64.771	3.669	1.00	74.70
ATOM	431	C	LYS	58	7.239	58.465	3.350	1.00	35.82
ATOM	432	O	LYS	58	7.913	58.623	2.338	1.00	61.17
ATOM	433	N	CYS	59	6.106	57.769	3.368	1.00	25.24
ATOM	434	CA	CYS	59	5.585	57.164	2.149	1.00	32.32
ATOM	435	C	CYS	59	4.590	58.056	1.450	1.00	32.78
ATOM	436	O	CYS	59	3.855	58.803	2.098	1.00	19.48
ATOM	437	CB	CYS	59	4.973	55.800	2.450	1.00	36.16
ATOM	438	SG	CYS	59	6.131	54.654	3.265	1.00	38.46
ATOM	439	N	ASP	60	4.558	57.953	0.126	1.00	55.78
ATOM	440	CA	ASP	60	3.671	58.775	-0.689	1.00	60.20
ATOM	441	CB	ASP	60	4.355	59.123	-2.012	1.00	100.00
ATOM	442	CG	ASP	60	5.548	60.034	-1.829	1.00	100.00
ATOM	443	OD1	ASP	60	6.663	59.526	-1.572	1.00	99.57
ATOM	444	OD2	ASP	60	5.365	61.262	-1.938	1.00	100.00
ATOM	445	C	ASP	60	2.280	58.212	-0.971	1.00	60.30
ATOM	446	O	ASP	60	2.137	57.088	-1.465	1.00	96.97
ATOM	447	N	TRP	61	1.259	59.017	-0.672	1.00	55.22
ATOM	448	CA	TRP	61	-0.123	58.628	-0.920	1.00	54.01
ATOM	449	CB	TRP	61	-1.104	59.359	0.008	1.00	80.54
ATOM	450	CG	TRP	61	-2.538	59.055	-0.341	1.00	87.43
ATOM	451	CD2	TRP	61	-3.427	59.871	-1.113	1.00	89.11

ATOM	452	CE2	TRP	61	-4.608	59.129	-1.318	1.00	89.11
ATOM	453	CE3	TRP	61	-3.337	61.157	-1.664	1.00	89.11
ATOM	454	CD1	TRP	61	-3.207	57.890	-0.099	1.00	89.11
ATOM	455	NE1	TRP	61	-4.446	57.922	-0.686	1.00	89.11
ATOM	456	CZ2	TRP	61	-5.689	59.622	-2.050	1.00	89.11
ATOM	457	CZ3	TRP	61	-4.420	61.650	-2.396	1.00	89.11
ATOM	458	CH2	TRP	61	-5.578	60.881	-2.579	1.00	89.11
ATOM	459	C	TRP	61	-0.481	58.952	-2.361	1.00	51.66
ATOM	460	O	TRP	61	-1.463	58.429	-2.888	1.00	78.52
ATOM	461	N	SER	62	0.303	59.828	-2.987	1.00	86.32
ATOM	462	CA	SER	62	0.062	60.225	-4.371	1.00	86.05
ATOM	463	CB	SER	62	0.971	61.400	-4.768	1.00	89.27
ATOM	464	OG	SER	62	2.341	61.033	-4.795	1.00	72.40
ATOM	465	C	SER	62	0.221	59.056	-5.352	1.00	93.57
ATOM	466	O	SER	62	0.833	59.202	-6.413	1.00	100.00
ATOM	467	N	SER	63	-0.321	57.899	-4.964	1.00	99.01
ATOM	468	CA	SER	63	-0.316	56.659	-5.744	1.00	100.00
ATOM	469	CB	SER	63	-1.444	56.691	-6.785	1.00	99.34
ATOM	470	OG	SER	63	-2.705	56.908	-6.167	1.00	99.34
ATOM	471	C	SER	63	1.015	56.258	-6.393	1.00	100.00
ATOM	472	O	SER	63	1.042	55.642	-7.467	1.00	99.34
ATOM	473	N	THR	64	2.114	56.619	-5.737	1.00	92.69
ATOM	474	CA	THR	64	3.447	56.286	-6.220	1.00	91.16
ATOM	475	CB	THR	64	4.418	57.487	-6.100	1.00	87.31
ATOM	476	OG1	THR	64	4.430	57.963	-4.749	1.00	84.42
ATOM	477	CG2	THR	64	4.001	58.622	-7.028	1.00	86.22
ATOM	478	C	THR	64	3.955	55.139	-5.357	1.00	88.94
ATOM	479	O	THR	64	4.673	54.256	-5.832	1.00	88.37
ATOM	480	N	ARG	65	3.541	55.161	-4.089	1.00	81.71
ATOM	481	CA	ARG	65	3.910	54.155	-3.099	1.00	82.53
ATOM	482	CB	ARG	65	3.276	52.808	-3.439	1.00	92.46
ATOM	483	CG	ARG	65	1.769	52.797	-3.210	1.00	96.14
ATOM	484	CD	ARG	65	1.125	51.568	-3.808	1.00	98.47
ATOM	485	NE	ARG	65	1.781	50.343	-3.367	1.00	100.00
ATOM	486	CZ	ARG	65	2.336	49.447	-4.179	1.00	100.00
ATOM	487	NH1	ARG	65	2.318	49.629	-5.495	1.00	100.00
ATOM	488	NH2	ARG	65	2.914	48.365	-3.669	1.00	100.00
ATOM	489	C	ARG	65	5.412	54.029	-2.868	1.00	82.52
ATOM	490	O	ARG	65	5.918	52.957	-2.512	1.00	86.74
ATOM	491	N	ARG	66	6.104	55.150	-3.078	1.00	42.89
ATOM	492	CA	ARG	66	7.546	55.260	-2.885	1.00	45.24
ATOM	493	CB	ARG	66	8.161	56.192	-3.933	1.00	100.00
ATOM	494	CG	ARG	66	9.674	56.052	-4.100	1.00	100.00
ATOM	495	CD	ARG	66	10.325	57.370	-4.532	1.00	100.00
ATOM	496	NE	ARG	66	10.341	58.348	-3.440	1.00	100.00
ATOM	497	CZ	ARG	66	10.602	59.648	-3.580	1.00	100.00
ATOM	498	NH1	ARG	66	10.876	60.156	-4.777	1.00	100.00
ATOM	499	NH2	ARG	66	10.582	60.444	-2.515	1.00	99.27
ATOM	500	C	ARG	66	7.670	55.888	-1.507	1.00	45.00
ATOM	501	O	ARG	66	6.967	56.849	-1.185	1.00	96.73
ATOM	502	N	CYS	67	8.539	55.326	-0.682	1.00	58.77
ATOM	503	CA	CYS	67	8.704	55.835	0.664	1.00	57.82
ATOM	504	C	CYS	67	9.900	56.743	0.868	1.00	56.12
ATOM	505	O	CYS	67	9.741	57.965	0.950	1.00	63.09
ATOM	506	CB	CYS	67	8.727	54.685	1.665	1.00	61.44
ATOM	507	SG	CYS	67	7.151	53.781	1.736	1.00	69.55
ATOM	508	N	GLN	68	11.097	56.155	0.918	1.00	37.67

ATOM	509	CA	GLN	68	12.328	56.914	1.148	1.00	31.95
ATOM	510	CB	GLN	68	12.530	58.003	0.082	1.00	66.95
ATOM	511	CG	GLN	68	12.543	57.466	-1.342	1.00	80.89
ATOM	512	CD	GLN	68	13.303	56.157	-1.464	1.00	90.77
ATOM	513	OE1	GLN	68	14.529	56.147	-1.570	1.00	91.38
ATOM	514	NE2	GLN	68	12.575	55.042	-1.431	1.00	87.41
ATOM	515	C	GLN	68	12.316	57.517	2.557	1.00	20.50
ATOM	516	O	GLN	68	11.391	58.249	2.933	1.00	54.34
ATOM	517	N	PRO	69	13.348	57.196	3.357	1.00	13.69
ATOM	518	CD	PRO	69	14.498	56.414	2.868	1.00	6.46
ATOM	519	CA	PRO	69	13.580	57.621	4.740	1.00	12.35
ATOM	520	CB	PRO	69	15.057	57.286	4.946	1.00	2.44
ATOM	521	CG	PRO	69	15.242	56.091	4.130	1.00	2.00
ATOM	522	C	PRO	69	13.303	59.087	5.096	1.00	16.30
ATOM	523	O	PRO	69	12.630	59.832	4.372	1.00	15.64
ATOM	524	N	ILE	70	13.792	59.460	6.269	1.00	27.42
ATOM	525	CA	ILE	70	13.668	60.807	6.786	1.00	29.72
ATOM	526	CB	ILE	70	12.440	60.959	7.700	1.00	23.58
ATOM	527	CG2	ILE	70	12.392	62.356	8.298	1.00	5.30
ATOM	528	CG1	ILE	70	11.164	60.697	6.903	1.00	18.22
ATOM	529	CD1	ILE	70	9.925	60.713	7.753	1.00	14.64
ATOM	530	C	ILE	70	14.956	61.038	7.566	1.00	39.80
ATOM	531	O	ILE	70	15.283	60.287	8.495	1.00	49.06
ATOM	532	N	GLU	71	15.701	62.052	7.135	1.00	46.37
ATOM	533	CA	GLU	71	16.985	62.430	7.719	1.00	47.74
ATOM	534	CB	GLU	71	17.654	63.494	6.834	1.00	95.87
ATOM	535	CG	GLU	71	17.643	63.160	5.330	1.00	100.00
ATOM	536	CD	GLU	71	18.279	64.237	4.443	1.00	100.00
ATOM	537	OE1	GLU	71	18.559	65.358	4.933	1.00	100.00
ATOM	538	OE2	GLU	71	18.497	63.955	3.242	1.00	100.00
ATOM	539	C	GLU	71	16.955	62.905	9.177	1.00	40.60
ATOM	540	O	GLU	71	16.982	64.101	9.463	1.00	72.08
ATOM	541	N	PHE	72	16.836	61.955	10.090	1.00	49.10
ATOM	542	CA	PHE	72	16.858	62.246	11.515	1.00	47.70
ATOM	543	CB	PHE	72	15.943	61.285	12.296	1.00	26.99
ATOM	544	CG	PHE	72	14.513	61.701	12.359	1.00	14.97
ATOM	545	CD1	PHE	72	13.558	61.060	11.579	1.00	13.04
ATOM	546	CD2	PHE	72	14.114	62.727	13.205	1.00	25.22
ATOM	547	CE1	PHE	72	12.219	61.443	11.641	1.00	10.70
ATOM	548	CE2	PHE	72	12.783	63.111	13.273	1.00	22.34
ATOM	549	CZ	PHE	72	11.834	62.472	12.492	1.00	13.98
ATOM	550	C	PHE	72	18.286	61.861	11.840	1.00	53.28
ATOM	551	O	PHE	72	18.548	60.673	12.048	1.00	35.43
ATOM	552	N	ASP	73	19.222	62.805	11.768	1.00	35.79
ATOM	553	CA	ASP	73	20.621	62.491	12.086	1.00	42.81
ATOM	554	CB	ASP	73	20.742	62.176	13.585	1.00	30.40
ATOM	555	CG	ASP	73	22.042	61.481	13.936	1.00	36.19
ATOM	556	OD1	ASP	73	23.091	62.152	13.896	1.00	47.18
ATOM	557	OD2	ASP	73	22.015	60.270	14.240	1.00	26.89
ATOM	558	C	ASP	73	21.260	61.334	11.286	1.00	35.80
ATOM	559	O	ASP	73	20.701	60.242	11.191	1.00	11.67
ATOM	560	N	ALA	74	22.469	61.554	10.776	1.00	25.17
ATOM	561	CA	ALA	74	23.175	60.512	10.031	1.00	20.14
ATOM	562	CB	ALA	74	23.237	60.849	8.549	1.00	32.42
ATOM	563	C	ALA	74	24.578	60.309	10.584	1.00	18.38
ATOM	564	O	ALA	74	25.415	59.674	9.937	1.00	36.37
ATOM	565	N	THR	75	24.819	60.826	11.789	1.00	34.19

ATOM	566	CA	THR	75	26.125	60.713	12.436	1.00	37.24
ATOM	567	CB	THR	75	26.365	61.861	13.459	1.00	39.09
ATOM	568	OG1	THR	75	25.684	61.568	14.688	1.00	50.36
ATOM	569	CG2	THR	75	25.882	63.203	12.901	1.00	29.34
ATOM	570	C	THR	75	26.322	59.384	13.169	1.00	30.19
ATOM	571	O	THR	75	25.356	58.750	13.604	1.00	16.03
ATOM	572	N	GLY	76	27.583	58.977	13.309	1.00	9.26
ATOM	573	CA	GLY	76	27.899	57.745	14.020	1.00	4.38
ATOM	574	C	GLY	76	27.960	57.911	15.537	1.00	8.44
ATOM	575	O	GLY	76	27.380	58.844	16.109	1.00	19.23
ATOM	576	N	ASN	77	28.676	57.008	16.194	1.00	33.45
ATOM	577	CA	ASN	77	28.800	57.049	17.651	1.00	40.84
ATOM	578	CB	ASN	77	29.207	55.670	18.194	1.00	21.30
ATOM	579	CG	ASN	77	28.079	54.674	18.140	1.00	22.08
ATOM	580	OD1	ASN	77	28.271	53.512	17.782	1.00	33.50
ATOM	581	ND2	ASN	77	26.884	55.128	18.487	1.00	29.29
ATOM	582	C	ASN	77	29.754	58.113	18.183	1.00	43.14
ATOM	583	O	ASN	77	30.956	58.072	17.913	1.00	31.86
ATOM	584	N	ARG	78	29.216	59.038	18.975	1.00	11.57
ATOM	585	CA	ARG	78	30.012	60.110	19.577	1.00	13.97
ATOM	586	CB	ARG	78	29.104	61.129	20.256	1.00	2.00
ATOM	587	CG	ARG	78	28.439	62.069	19.295	1.00	2.41
ATOM	588	CD	ARG	78	27.555	62.989	20.063	1.00	9.69
ATOM	589	NE	ARG	78	26.157	62.699	19.802	1.00	19.46
ATOM	590	CZ	ARG	78	25.162	63.057	20.599	1.00	26.86
ATOM	591	NH1	ARG	78	25.409	63.718	21.724	1.00	14.38
ATOM	592	NH2	ARG	78	23.916	62.767	20.249	1.00	36.05
ATOM	593	C	ARG	78	31.039	59.592	20.583	1.00	16.43
ATOM	594	O	ARG	78	30.854	58.514	21.154	1.00	3.40
ATOM	595	N	ASP	79	32.094	60.376	20.821	1.00	57.34
ATOM	596	CA	ASP	79	33.161	59.982	21.747	1.00	46.48
ATOM	597	CB	ASP	79	34.521	60.102	21.063	1.00	34.66
ATOM	598	CG	ASP	79	34.818	58.939	20.151	1.00	46.53
ATOM	599	OD1	ASP	79	35.047	59.177	18.948	1.00	52.20
ATOM	600	OD2	ASP	79	34.838	57.789	20.639	1.00	51.53
ATOM	601	C	ASP	79	33.238	60.660	23.120	1.00	47.28
ATOM	602	O	ASP	79	32.706	61.753	23.339	1.00	31.03
ATOM	603	N	TYR	80	33.939	59.988	24.030	1.00	31.17
ATOM	604	CA	TYR	80	34.167	60.448	25.399	1.00	37.94
ATOM	605	CB	TYR	80	33.530	59.448	26.378	1.00	6.80
ATOM	606	CG	TYR	80	34.060	59.477	27.804	1.00	2.73
ATOM	607	CD1	TYR	80	33.472	60.284	28.781	1.00	10.55
ATOM	608	CE1	TYR	80	33.938	60.283	30.115	1.00	13.69
ATOM	609	CD2	TYR	80	35.128	58.668	28.189	1.00	2.29
ATOM	610	CE2	TYR	80	35.601	58.663	29.510	1.00	8.55
ATOM	611	CZ	TYR	80	35.002	59.468	30.470	1.00	13.27
ATOM	612	OH	TYR	80	35.466	59.447	31.774	1.00	14.49
ATOM	613	C	TYR	80	35.688	60.516	25.603	1.00	50.51
ATOM	614	O	TYR	80	36.203	61.329	26.386	1.00	50.73
ATOM	615	N	ALA	81	36.389	59.662	24.860	1.00	15.44
ATOM	616	CA	ALA	81	37.838	59.557	24.910	1.00	14.98
ATOM	617	CB	ALA	81	38.267	58.651	26.076	1.00	30.17
ATOM	618	C	ALA	81	38.274	58.958	23.583	1.00	21.59
ATOM	619	O	ALA	81	37.479	58.915	22.647	1.00	29.58
ATOM	620	N	LYS	82	39.510	58.454	23.530	1.00	70.93
ATOM	621	CA	LYS	82	40.093	57.859	22.321	1.00	86.24
ATOM	622	CB	LYS	82	41.503	57.328	22.620	1.00	100.00

ATOM	623	CG	LYS	82	42.450	58.343	23.257	1.00100.00
ATOM	624	CD	LYS	82	42.452	59.685	22.517	1.00100.00
ATOM	625	CE	LYS	82	42.818	59.541	21.043	1.00100.00
ATOM	626	NZ	LYS	82	44.168	58.950	20.850	1.00100.00
ATOM	627	C	LYS	82	39.242	56.745	21.716	1.00 90.73
ATOM	628	O	LYS	82	38.349	56.998	20.905	1.00100.00
ATOM	629	N	ASP	83	39.572	55.506	22.059	1.00 75.27
ATOM	630	CA	ASP	83	38.818	54.358	21.582	1.00 73.55
ATOM	631	CB	ASP	83	39.755	53.181	21.300	1.00 96.41
ATOM	632	CG	ASP	83	40.620	53.400	20.070	1.00 98.69
ATOM	633	OD1	ASP	83	41.594	52.638	19.900	1.00 99.94
ATOM	634	OD2	ASP	83	40.323	54.317	19.270	1.00100.00
ATOM	635	C	ASP	83	37.818	54.004	22.674	1.00 69.09
ATOM	636	O	ASP	83	37.716	52.852	23.104	1.00 86.93
ATOM	637	N	ASP	84	37.096	55.025	23.128	1.00 40.86
ATOM	638	CA	ASP	84	36.106	54.876	24.184	1.00 34.72
ATOM	639	CB	ASP	84	36.682	55.348	25.527	1.00 35.29
ATOM	640	CG	ASP	84	35.930	54.786	26.727	1.00 47.55
ATOM	641	OD1	ASP	84	36.480	54.846	27.847	1.00 42.51
ATOM	642	OD2	ASP	84	34.798	54.277	26.556	1.00 54.19
ATOM	643	C	ASP	84	34.866	55.689	23.832	1.00 28.72
ATOM	644	O	ASP	84	34.764	56.870	24.177	1.00 17.25
ATOM	645	N	PRO	85	33.922	55.067	23.105	1.00 58.36
ATOM	646	CD	PRO	85	34.097	53.749	22.471	1.00 75.05
ATOM	647	CA	PRO	85	32.663	55.678	22.672	1.00 53.49
ATOM	648	CB	PRO	85	31.996	54.553	21.883	1.00 70.95
ATOM	649	CG	PRO	85	33.163	53.842	21.287	1.00 74.54
ATOM	650	C	PRO	85	31.788	56.151	23.827	1.00 46.05
ATOM	651	O	PRO	85	31.840	55.611	24.941	1.00 56.72
ATOM	652	N	LEU	86	30.965	57.149	23.522	1.00 48.46
ATOM	653	CA	LEU	86	30.062	57.777	24.478	1.00 44.22
ATOM	654	CB	LEU	86	30.053	59.291	24.198	1.00 2.00
ATOM	655	CG	LEU	86	29.365	60.343	25.076	1.00 2.00
ATOM	656	CD1	LEU	86	28.004	60.639	24.560	1.00 2.00
ATOM	657	CD2	LEU	86	29.317	59.933	26.530	1.00 2.00
ATOM	658	C	LEU	86	28.639	57.203	24.429	1.00 43.93
ATOM	659	O	LEU	86	27.936	57.158	25.435	1.00 2.00
ATOM	660	N	GLU	87	28.248	56.700	23.268	1.00 15.51
ATOM	661	CA	GLU	87	26.909	56.161	23.065	1.00 11.17
ATOM	662	CB	GLU	87	26.014	57.290	22.556	1.00 2.00
ATOM	663	CG	GLU	87	26.606	57.950	21.319	1.00 7.28
ATOM	664	CD	GLU	87	25.844	59.140	20.822	1.00 12.30
ATOM	665	OE1	GLU	87	25.004	59.667	21.565	1.00 10.92
ATOM	666	OE2	GLU	87	26.096	59.559	19.676	1.00 15.50
ATOM	667	C	GLU	87	27.025	55.088	21.991	1.00 13.34
ATOM	668	O	GLU	87	28.018	55.063	21.263	1.00 2.00
ATOM	669	N	PHE	88	26.020	54.219	21.870	1.00 42.01
ATOM	670	CA	PHE	88	26.056	53.159	20.852	1.00 41.08
ATOM	671	CB	PHE	88	26.526	51.836	21.450	1.00 6.04
ATOM	672	CG	PHE	88	27.414	51.991	22.653	1.00 2.00
ATOM	673	CD1	PHE	88	26.899	52.461	23.855	1.00 2.93
ATOM	674	CD2	PHE	88	28.739	51.596	22.606	1.00 2.00
ATOM	675	CE1	PHE	88	27.686	52.528	24.994	1.00 4.93
ATOM	676	CE2	PHE	88	29.537	51.657	23.740	1.00 4.40
ATOM	677	CZ	PHE	88	29.009	52.121	24.940	1.00 2.00
ATOM	678	C	PHE	88	24.714	52.999	20.122	1.00 39.99
ATOM	679	O	PHE	88	23.780	52.321	20.571	1.00 19.36

ATOM	680	N	LYS	89	24.662	53.622	18.957	1.00	26.29
ATOM	681	CA	LYS	89	23.480	53.644	18.134	1.00	29.18
ATOM	682	CB	LYS	89	23.592	54.795	17.121	1.00	33.19
ATOM	683	CG	LYS	89	23.603	56.189	17.763	1.00	30.08
ATOM	684	CD	LYS	89	23.906	57.297	16.756	1.00	33.92
ATOM	685	CE	LYS	89	23.810	58.684	17.402	1.00	49.29
ATOM	686	NZ	LYS	89	24.263	59.798	16.515	1.00	44.67
ATOM	687	C	LYS	89	23.086	52.328	17.458	1.00	35.47
ATOM	688	O	LYS	89	21.902	52.130	17.187	1.00	35.18
ATOM	689	N	SER	90	24.033	51.427	17.183	1.00	8.00
ATOM	690	CA	SER	90	23.650	50.166	16.540	1.00	7.10
ATOM	691	CB	SER	90	24.866	49.280	16.217	1.00	31.15
ATOM	692	OG	SER	90	25.738	49.110	17.324	1.00	39.44
ATOM	693	C	SER	90	22.630	49.428	17.412	1.00	6.76
ATOM	694	O	SER	90	22.730	49.434	18.654	1.00	26.61
ATOM	695	N	HIS	91	21.586	48.916	16.753	1.00	18.79
ATOM	696	CA	HIS	91	20.487	48.163	17.390	1.00	18.64
ATOM	697	CB	HIS	91	21.010	46.881	18.040	1.00	7.53
ATOM	698	CG	HIS	91	21.704	45.972	17.091	1.00	2.00
ATOM	699	CD2	HIS	91	22.919	45.371	17.154	1.00	2.49
ATOM	700	ND1	HIS	91	21.175	45.631	15.863	1.00	3.30
ATOM	701	CE1	HIS	91	22.031	44.870	15.212	1.00	5.88
ATOM	702	NE2	HIS	91	23.099	44.700	15.977	1.00	3.91
ATOM	703	C	HIS	91	19.740	48.964	18.426	1.00	17.28
ATOM	704	O	HIS	91	19.425	48.463	19.501	1.00	6.39
ATOM	705	N	GLN	92	19.440	50.204	18.080	1.00	13.57
ATOM	706	CA	GLN	92	18.754	51.117	18.977	1.00	15.23
ATOM	707	CB	GLN	92	19.269	52.529	18.733	1.00	18.78
ATOM	708	CG	GLN	92	19.158	52.929	17.270	1.00	18.17
ATOM	709	CD	GLN	92	19.633	54.330	16.998	1.00	21.22
ATOM	710	OE1	GLN	92	19.554	54.805	15.860	1.00	29.00
ATOM	711	NE2	GLN	92	20.120	55.015	18.038	1.00	16.40
ATOM	712	C	GLN	92	17.256	51.085	18.767	1.00	9.74
ATOM	713	O	GLN	92	16.513	51.717	19.522	1.00	8.51
ATOM	714	N	TRP	93	16.829	50.357	17.734	1.00	16.38
ATOM	715	CA	TRP	93	15.415	50.232	17.390	1.00	19.88
ATOM	716	CB	TRP	93	14.637	49.471	18.475	1.00	25.91
ATOM	717	CG	TRP	93	14.598	47.963	18.348	1.00	21.61
ATOM	718	CD2	TRP	93	13.438	47.167	18.088	1.00	20.41
ATOM	719	CE2	TRP	93	13.827	45.809	18.210	1.00	20.32
ATOM	720	CE3	TRP	93	12.102	47.456	17.773	1.00	28.68
ATOM	721	CD1	TRP	93	15.620	47.085	18.587	1.00	18.14
ATOM	722	NE1	TRP	93	15.166	45.791	18.510	1.00	9.44
ATOM	723	CZ2	TRP	93	12.922	44.752	18.040	1.00	27.16
ATOM	724	CZ3	TRP	93	11.204	46.405	17.599	1.00	23.24
ATOM	725	CH2	TRP	93	11.621	45.070	17.735	1.00	29.97
ATOM	726	C	TRP	93	14.799	51.615	17.198	1.00	13.30
ATOM	727	O	TRP	93	13.753	51.938	17.781	1.00	26.98
ATOM	728	N	PHE	94	15.489	52.451	16.428	1.00	21.67
ATOM	729	CA	PHE	94	14.993	53.788	16.150	1.00	17.34
ATOM	730	CB	PHE	94	16.105	54.688	15.584	1.00	19.57
ATOM	731	CG	PHE	94	15.615	56.030	15.132	1.00	13.16
ATOM	732	CD1	PHE	94	15.092	56.943	16.056	1.00	7.80
ATOM	733	CD2	PHE	94	15.561	56.342	13.772	1.00	5.50
ATOM	734	CE1	PHE	94	14.503	58.156	15.632	1.00	8.74
ATOM	735	CE2	PHE	94	14.977	57.547	13.328	1.00	6.93
ATOM	736	CZ	PHE	94	14.444	58.455	14.264	1.00	11.85

ATOM	737	C	PHE	94	13.844	53.647	15.160	1.00	14.30
ATOM	738	O	PHE	94	14.012	53.111	14.066	1.00	16.91
ATOM	739	N	GLY	95	12.667	54.088	15.579	1.00	2.00
ATOM	740	CA	GLY	95	11.498	53.997	14.722	1.00	12.53
ATOM	741	C	GLY	95	10.391	53.205	15.394	1.00	14.53
ATOM	742	O	GLY	95	9.242	53.232	14.958	1.00	28.24
ATOM	743	N	ALA	96	10.748	52.514	16.476	1.00	6.95
ATOM	744	CA	ALA	96	9.836	51.694	17.256	1.00	5.46
ATOM	745	CB	ALA	96	10.584	51.091	18.433	1.00	13.50
ATOM	746	C	ALA	96	8.659	52.496	17.759	1.00	5.22
ATOM	747	O	ALA	96	7.636	51.933	18.126	1.00	18.73
ATOM	748	N	SER	97	8.825	53.813	17.786	1.00	3.20
ATOM	749	CA	SER	97	7.802	54.748	18.263	1.00	9.86
ATOM	750	CB	SER	97	8.133	55.193	19.684	1.00	10.77
ATOM	751	OG	SER	97	9.457	55.692	19.750	1.00	40.00
ATOM	752	C	SER	97	7.789	55.966	17.365	1.00	10.94
ATOM	753	O	SER	97	8.822	56.600	17.176	1.00	23.53
ATOM	754	N	VAL	98	6.622	56.314	16.838	1.00	7.23
ATOM	755	CA	VAL	98	6.521	57.463	15.938	1.00	7.29
ATOM	756	CB	VAL	98	6.770	57.047	14.456	1.00	5.91
ATOM	757	CG1	VAL	98	6.160	58.050	13.488	1.00	5.63
ATOM	758	CG2	VAL	98	8.253	56.956	14.193	1.00	6.93
ATOM	759	C	VAL	98	5.210	58.231	16.016	1.00	17.15
ATOM	760	O	VAL	98	4.133	57.661	15.852	1.00	41.70
ATOM	761	N	ARG	99	5.311	59.532	16.264	1.00	37.37
ATOM	762	CA	ARG	99	4.139	60.387	16.324	1.00	35.24
ATOM	763	CB	ARG	99	3.744	60.684	17.773	1.00	33.50
ATOM	764	CG	ARG	99	2.341	61.274	17.920	1.00	48.99
ATOM	765	CD	ARG	99	1.245	60.288	17.549	1.00	65.47
ATOM	766	NE	ARG	99	1.050	59.277	18.584	1.00	76.82
ATOM	767	CZ	ARG	99	0.980	57.967	18.363	1.00	76.82
ATOM	768	NH1	ARG	99	1.091	57.483	17.133	1.00	74.77
ATOM	769	NH2	ARG	99	0.792	57.131	19.378	1.00	76.82
ATOM	770	C	ARG	99	4.475	61.663	15.558	1.00	28.66
ATOM	771	O	ARG	99	5.634	61.898	15.226	1.00	15.35
ATOM	772	N	SER	100	3.449	62.425	15.194	1.00	14.68
ATOM	773	CA	SER	100	3.637	63.666	14.459	1.00	15.18
ATOM	774	CB	SER	100	3.820	63.390	12.959	1.00	17.10
ATOM	775	OG	SER	100	2.585	63.341	12.262	1.00	26.18
ATOM	776	C	SER	100	2.444	64.590	14.664	1.00	11.52
ATOM	777	O	SER	100	1.415	64.204	15.229	1.00	25.19
ATOM	778	N	LYS	101	2.585	65.814	14.184	1.00	78.94
ATOM	779	CA	LYS	101	1.533	66.806	14.275	1.00	87.28
ATOM	780	CB	LYS	101	1.929	67.863	15.298	1.00	16.69
ATOM	781	CG	LYS	101	1.042	67.896	16.518	1.00	33.79
ATOM	782	CD	LYS	101	1.458	69.006	17.479	1.00	44.21
ATOM	783	CE	LYS	101	0.455	69.199	18.628	1.00	49.24
ATOM	784	NZ	LYS	101	-0.829	69.869	18.248	1.00	43.55
ATOM	785	C	LYS	101	1.455	67.414	12.880	1.00	91.29
ATOM	786	O	LYS	101	1.096	66.733	11.897	1.00	18.30
ATOM	787	N	GLN	102	1.762	68.704	12.812	1.00	26.63
ATOM	788	CA	GLN	102	1.805	69.408	11.551	1.00	27.31
ATOM	789	CB	GLN	102	0.801	70.563	11.501	1.00	60.09
ATOM	790	CG	GLN	102	0.835	71.505	12.689	1.00	62.79
ATOM	791	CD	GLN	102	-0.202	71.164	13.734	1.00	65.68
ATOM	792	OE1	GLN	102	-0.229	71.763	14.808	1.00	71.18
ATOM	793	NE2	GLN	102	-1.075	70.212	13.420	1.00	65.79

ATOM	794	C	GLN	102	3.240	69.905	11.463	1.00	32.24
ATOM	795	O	GLN	102	3.679	70.739	12.259	1.00	62.34
ATOM	796	N	ASP	103	3.986	69.297	10.543	1.00	56.85
ATOM	797	CA	ASP	103	5.396	69.602	10.294	1.00	56.89
ATOM	798	CB	ASP	103	5.655	71.119	10.180	1.00	25.53
ATOM	799	CG	ASP	103	4.868	71.784	9.037	1.00	28.51
ATOM	800	OD1	ASP	103	5.282	71.696	7.848	1.00	33.21
ATOM	801	OD2	ASP	103	3.839	72.426	9.347	1.00	12.36
ATOM	802	C	ASP	103	6.261	69.013	11.394	1.00	53.85
ATOM	803	O	ASP	103	7.410	68.659	11.150	1.00	38.83
ATOM	804	N	LYS	104	5.682	68.875	12.587	1.00	15.20
ATOM	805	CA	LYS	104	6.386	68.346	13.757	1.00	18.51
ATOM	806	CB	LYS	104	5.953	69.096	15.029	1.00	38.80
ATOM	807	CG	LYS	104	6.724	70.392	15.299	1.00	41.75
ATOM	808	CD	LYS	104	6.295	71.094	16.597	1.00	43.73
ATOM	809	CE	LYS	104	5.119	72.063	16.399	1.00	51.33
ATOM	810	NZ	LYS	104	3.789	71.409	16.216	1.00	43.15
ATOM	811	C	LYS	104	6.244	66.837	13.974	1.00	19.47
ATOM	812	O	LYS	104	5.148	66.341	14.255	1.00	34.06
ATOM	813	N	ILE	105	7.367	66.118	13.875	1.00	33.52
ATOM	814	CA	ILE	105	7.366	64.668	14.061	1.00	22.60
ATOM	815	CB	ILE	105	7.433	63.896	12.700	1.00	2.00
ATOM	816	CG2	ILE	105	6.544	64.583	11.647	1.00	6.01
ATOM	817	CG1	ILE	105	8.858	63.791	12.160	1.00	2.00
ATOM	818	CD1	ILE	105	8.918	63.124	10.746	1.00	5.99
ATOM	819	C	ILE	105	8.425	64.146	15.036	1.00	19.47
ATOM	820	O	ILE	105	9.605	64.470	14.935	1.00	8.88
ATOM	821	N	LEU	106	7.968	63.346	15.995	1.00	18.55
ATOM	822	CA	LEU	106	8.815	62.748	17.024	1.00	11.11
ATOM	823	CB	LEU	106	8.157	62.952	18.385	1.00	2.00
ATOM	824	CG	LEU	106	8.975	62.595	19.618	1.00	7.52
ATOM	825	CD1	LEU	106	10.402	63.167	19.496	1.00	5.89
ATOM	826	CD2	LEU	106	8.260	63.125	20.856	1.00	2.00
ATOM	827	C	LEU	106	9.024	61.247	16.783	1.00	14.97
ATOM	828	O	LEU	106	8.066	60.507	16.595	1.00	23.07
ATOM	829	N	ALA	107	10.278	60.806	16.798	1.00	6.26
ATOM	830	CA	ALA	107	10.626	59.402	16.589	1.00	7.54
ATOM	831	CB	ALA	107	11.050	59.174	15.172	1.00	2.07
ATOM	832	C	ALA	107	11.763	59.064	17.541	1.00	11.82
ATOM	833	O	ALA	107	12.774	59.767	17.591	1.00	22.89
ATOM	834	N	CYS	108	11.619	57.957	18.256	1.00	4.85
ATOM	835	CA	CYS	108	12.610	57.564	19.242	1.00	2.00
ATOM	836	C	CYS	108	13.333	56.238	19.031	1.00	2.00
ATOM	837	O	CYS	108	12.955	55.422	18.176	1.00	2.00
ATOM	838	CB	CYS	108	11.938	57.569	20.599	1.00	9.25
ATOM	839	SG	CYS	108	10.876	59.031	20.839	1.00	16.70
ATOM	840	N	ALA	109	14.371	56.033	19.842	1.00	7.35
ATOM	841	CA	ALA	109	15.191	54.825	19.797	1.00	15.21
ATOM	842	CB	ALA	109	16.556	55.173	19.249	1.00	2.00
ATOM	843	C	ALA	109	15.313	54.209	21.204	1.00	16.48
ATOM	844	O	ALA	109	16.380	54.246	21.814	1.00	2.00
ATOM	845	N	PRO	110	14.229	53.576	21.710	1.00	33.62
ATOM	846	CD	PRO	110	12.938	53.367	21.025	1.00	6.85
ATOM	847	CA	PRO	110	14.208	52.957	23.045	1.00	33.21
ATOM	848	CB	PRO	110	12.767	52.461	23.177	1.00	3.73
ATOM	849	CG	PRO	110	12.375	52.194	21.764	1.00	11.50
ATOM	850	C	PRO	110	15.243	51.885	23.383	1.00	33.50

ATOM	851	O	PRO	110	15.237	51.354	24.490	1.00	11.41
ATOM	852	N	LEU	111	16.102	51.537	22.431	1.00	2.00
ATOM	853	CA	LEU	111	17.169	50.568	22.695	1.00	6.00
ATOM	854	CB	LEU	111	17.051	49.326	21.800	1.00	19.45
ATOM	855	CG	LEU	111	16.288	48.079	22.283	1.00	5.69
ATOM	856	CD1	LEU	111	16.875	47.558	23.596	1.00	10.71
ATOM	857	CD2	LEU	111	14.829	48.406	22.457	1.00	2.19
ATOM	858	C	LEU	111	18.541	51.255	22.524	1.00	11.40
ATOM	859	O	LEU	111	19.558	50.618	22.243	1.00	36.50
ATOM	860	N	TYR	112	18.531	52.575	22.710	1.00	22.43
ATOM	861	CA	TYR	112	19.709	53.432	22.623	1.00	22.55
ATOM	862	CB	TYR	112	19.257	54.887	22.381	1.00	15.91
ATOM	863	CG	TYR	112	20.311	55.963	22.612	1.00	14.17
ATOM	864	CD1	TYR	112	21.285	56.246	21.643	1.00	12.66
ATOM	865	CE1	TYR	112	22.268	57.212	21.868	1.00	9.96
ATOM	866	CD2	TYR	112	20.339	56.692	23.809	1.00	10.43
ATOM	867	CE2	TYR	112	21.319	57.651	24.047	1.00	11.75
ATOM	868	CZ	TYR	112	22.275	57.914	23.070	1.00	7.47
ATOM	869	OH	TYR	112	23.238	58.870	23.318	1.00	10.87
ATOM	870	C	TYR	112	20.520	53.308	23.917	1.00	21.68
ATOM	871	O	TYR	112	20.045	53.651	25.005	1.00	2.00
ATOM	872	N	HIS	113	21.736	52.781	23.792	1.00	36.07
ATOM	873	CA	HIS	113	22.618	52.595	24.942	1.00	32.84
ATOM	874	CB	HIS	113	23.378	51.258	24.840	1.00	36.55
ATOM	875	CG	HIS	113	22.508	50.047	25.039	1.00	37.37
ATOM	876	CD2	HIS	113	22.310	49.259	26.122	1.00	29.13
ATOM	877	ND1	HIS	113	21.685	49.548	24.049	1.00	43.29
ATOM	878	CE1	HIS	113	21.016	48.506	24.522	1.00	47.47
ATOM	879	NE2	HIS	113	21.376	48.311	25.773	1.00	39.94
ATOM	880	C	HIS	113	23.567	53.775	25.100	1.00	29.18
ATOM	881	O	HIS	113	24.052	54.325	24.113	1.00	19.89
ATOM	882	N	TRP	114	23.833	54.134	26.353	1.00	2.00
ATOM	883	CA	TRP	114	24.681	55.270	26.702	1.00	2.00
ATOM	884	CB	TRP	114	23.774	56.456	27.082	1.00	30.38
ATOM	885	CG	TRP	114	24.462	57.757	27.481	1.00	42.81
ATOM	886	CD2	TRP	114	24.535	58.320	28.796	1.00	34.81
ATOM	887	CE2	TRP	114	25.164	59.580	28.682	1.00	38.88
ATOM	888	CE3	TRP	114	24.122	57.880	30.058	1.00	45.99
ATOM	889	CD1	TRP	114	25.050	58.676	26.646	1.00	49.77
ATOM	890	NE1	TRP	114	25.469	59.774	27.362	1.00	38.99
ATOM	891	CZ2	TRP	114	25.386	60.409	29.783	1.00	50.84
ATOM	892	CZ3	TRP	114	24.346	58.709	31.157	1.00	64.24
ATOM	893	CH2	TRP	114	24.972	59.958	31.010	1.00	62.37
ATOM	894	C	TRP	114	25.635	54.986	27.860	1.00	2.00
ATOM	895	O	TRP	114	25.198	54.757	28.986	1.00	29.94
ATOM	896	N	ARG	115	26.935	55.047	27.580	1.00	7.99
ATOM	897	CA	ARG	115	27.990	54.846	28.580	1.00	10.70
ATOM	898	CB	ARG	115	29.353	54.764	27.877	1.00	38.01
ATOM	899	CG	ARG	115	30.537	54.658	28.814	1.00	39.78
ATOM	900	CD	ARG	115	31.593	55.711	28.537	1.00	37.21
ATOM	901	NE	ARG	115	32.066	56.270	29.803	1.00	46.30
ATOM	902	CZ	ARG	115	33.230	55.985	30.382	1.00	46.08
ATOM	903	NH1	ARG	115	34.078	55.144	29.801	1.00	48.98
ATOM	904	NH2	ARG	115	33.521	56.498	31.577	1.00	41.92
ATOM	905	C	ARG	115	27.990	56.062	29.503	1.00	12.75
ATOM	906	O	ARG	115	28.284	57.171	29.056	1.00	54.02
ATOM	907	N	THR	116	27.672	55.879	30.779	1.00	2.02

ATOM	908	CA	THR	116	27.652	57.026	31.685	1.00	8.09
ATOM	909	CB	THR	116	27.347	56.612	33.121	1.00	40.83
ATOM	910	OG1	THR	116	28.434	55.834	33.635	1.00	52.72
ATOM	911	CG2	THR	116	26.079	55.796	33.171	1.00	53.01
ATOM	912	C	THR	116	29.013	57.715	31.678	1.00	15.42
ATOM	913	O	THR	116	30.036	57.056	31.479	1.00	51.86
ATOM	914	N	GLU	117	29.032	59.031	31.893	1.00	31.20
ATOM	915	CA	GLU	117	30.294	59.774	31.919	1.00	28.07
ATOM	916	CB	GLU	117	30.056	61.265	31.739	1.00	21.82
ATOM	917	CG	GLU	117	30.154	61.672	30.289	1.00	20.14
ATOM	918	CD	GLU	117	29.567	63.028	30.006	1.00	28.00
ATOM	919	OE1	GLU	117	30.069	63.697	29.071	1.00	33.65
ATOM	920	OE2	GLU	117	28.594	63.409	30.703	1.00	33.31
ATOM	921	C	GLU	117	31.126	59.519	33.160	1.00	29.40
ATOM	922	O	GLU	117	32.243	59.996	33.269	1.00	14.71
ATOM	923	N	MET	118	30.566	58.782	34.107	1.00	16.39
ATOM	924	CA	MET	118	31.284	58.448	35.314	1.00	18.96
ATOM	925	CB	MET	118	30.312	58.323	36.488	1.00	32.57
ATOM	926	CG	MET	118	29.785	59.667	36.975	1.00	50.84
ATOM	927	SD	MET	118	27.979	59.876	36.946	1.00	65.74
ATOM	928	CE	MET	118	27.677	60.548	35.219	1.00	63.48
ATOM	929	C	MET	118	32.063	57.145	35.085	1.00	20.74
ATOM	930	O	MET	118	33.299	57.154	35.006	1.00	35.05
ATOM	931	N	LYS	119	31.337	56.045	34.880	1.00	13.18
ATOM	932	CA	LYS	119	31.958	54.744	34.672	1.00	17.16
ATOM	933	CB	LYS	119	31.445	53.768	35.731	1.00	77.66
ATOM	934	CG	LYS	119	32.387	52.622	36.061	1.00	99.08
ATOM	935	CD	LYS	119	33.640	53.114	36.775	1.00	100.00
ATOM	936	CE	LYS	119	34.398	51.958	37.405	1.00	100.00
ATOM	937	NZ	LYS	119	33.546	51.234	38.394	1.00	98.01
ATOM	938	C	LYS	119	31.667	54.206	33.278	1.00	12.33
ATOM	939	O	LYS	119	30.760	54.682	32.596	1.00	56.38
ATOM	940	N	GLN	120	32.461	53.226	32.851	1.00	40.10
ATOM	941	CA	GLN	120	32.295	52.591	31.541	1.00	39.35
ATOM	942	CB	GLN	120	33.539	51.757	31.196	1.00	81.42
ATOM	943	CG	GLN	120	33.339	50.646	30.155	1.00	91.33
ATOM	944	CD	GLN	120	32.841	51.137	28.802	1.00	100.00
ATOM	945	OE1	GLN	120	31.823	50.658	28.289	1.00	100.00
ATOM	946	NE2	GLN	120	33.573	52.071	28.204	1.00	100.00
ATOM	947	C	GLN	120	31.046	51.723	31.571	1.00	38.54
ATOM	948	O	GLN	120	31.035	50.654	32.181	1.00	83.06
ATOM	949	N	GLU	121	29.989	52.195	30.922	1.00	36.68
ATOM	950	CA	GLU	121	28.727	51.465	30.899	1.00	31.88
ATOM	951	CB	GLU	121	27.694	52.191	31.770	1.00	20.08
ATOM	952	CG	GLU	121	27.055	51.323	32.831	1.00	29.23
ATOM	953	CD	GLU	121	27.780	51.396	34.159	1.00	38.26
ATOM	954	OE1	GLU	121	27.125	51.674	35.185	1.00	32.10
ATOM	955	OE2	GLU	121	29.005	51.176	34.188	1.00	49.66
ATOM	956	C	GLU	121	28.166	51.298	29.491	1.00	33.39
ATOM	957	O	GLU	121	28.819	51.635	28.502	1.00	24.99
ATOM	958	N	ARG	122	26.958	50.740	29.425	1.00	5.33
ATOM	959	CA	ARG	122	26.217	50.520	28.180	1.00	2.39
ATOM	960	CB	ARG	122	26.627	49.202	27.513	1.00	6.96
ATOM	961	CG	ARG	122	28.095	49.104	27.112	1.00	28.83
ATOM	962	CD	ARG	122	28.282	48.082	26.021	1.00	29.30
ATOM	963	NE	ARG	122	27.308	48.315	24.963	1.00	23.13
ATOM	964	CZ	ARG	122	27.487	48.000	23.687	1.00	31.25

ATOM	965	NH1	ARG	122	28.615	47.426	23.289	1.00	33.78
ATOM	966	NH2	ARG	122	26.539	48.286	22.801	1.00	27.20
ATOM	967	C	ARG	122	24.754	50.435	28.605	1.00	4.69
ATOM	968	O	ARG	122	24.143	49.380	28.503	1.00	31.14
ATOM	969	N	GLU	123	24.216	51.544	29.116	1.00	19.17
ATOM	970	CA	GLU	123	22.841	51.611	29.614	1.00	16.96
ATOM	971	CB	GLU	123	22.821	52.461	30.874	1.00	2.00
ATOM	972	CG	GLU	123	23.799	51.971	31.916	1.00	13.95
ATOM	973	CD	GLU	123	23.878	52.864	33.141	1.00	23.94
ATOM	974	OE1	GLU	123	24.433	52.410	34.162	1.00	28.73
ATOM	975	OE2	GLU	123	23.396	54.019	33.102	1.00	23.08
ATOM	976	C	GLU	123	21.781	52.108	28.621	1.00	19.98
ATOM	977	O	GLU	123	21.916	53.188	28.045	1.00	9.54
ATOM	978	N	PRO	124	20.688	51.332	28.441	1.00	33.29
ATOM	979	CD	PRO	124	20.398	50.103	29.194	1.00	20.29
ATOM	980	CA	PRO	124	19.574	51.630	27.540	1.00	32.55
ATOM	981	CB	PRO	124	18.859	50.294	27.448	1.00	10.99
ATOM	982	CG	PRO	124	18.946	49.827	28.833	1.00	15.93
ATOM	983	C	PRO	124	18.688	52.686	28.169	1.00	30.35
ATOM	984	O	PRO	124	17.686	52.382	28.838	1.00	8.29
ATOM	985	N	VAL	125	19.114	53.930	27.984	1.00	6.18
ATOM	986	CA	VAL	125	18.420	55.087	28.508	1.00	6.62
ATOM	987	CB	VAL	125	19.449	56.165	28.912	1.00	2.00
ATOM	988	CG1	VAL	125	19.915	56.978	27.706	1.00	2.00
ATOM	989	CG2	VAL	125	18.910	57.008	30.016	1.00	2.00
ATOM	990	C	VAL	125	17.451	55.571	27.436	1.00	5.58
ATOM	991	O	VAL	125	16.375	56.046	27.743	1.00	2.00
ATOM	992	N	GLY	126	17.825	55.369	26.175	1.00	13.97
ATOM	993	CA	GLY	126	17.000	55.762	25.046	1.00	14.12
ATOM	994	C	GLY	126	16.901	57.251	24.750	1.00	20.44
ATOM	995	O	GLY	126	16.948	58.074	25.663	1.00	9.37
ATOM	996	N	THR	127	16.780	57.588	23.464	1.00	26.04
ATOM	997	CA	THR	127	16.618	58.973	23.008	1.00	20.73
ATOM	998	CB	THR	127	17.898	59.589	22.466	1.00	32.44
ATOM	999	OG1	THR	127	18.347	58.846	21.329	1.00	31.47
ATOM	1000	CG2	THR	127	18.945	59.613	23.522	1.00	33.66
ATOM	1001	C	THR	127	15.620	59.079	21.874	1.00	17.57
ATOM	1002	O	THR	127	15.254	58.083	21.246	1.00	31.07
ATOM	1003	N	CYS	128	15.212	60.308	21.597	1.00	15.32
ATOM	1004	CA	CYS	128	14.271	60.577	20.525	1.00	14.56
ATOM	1005	C	CYS	128	14.919	61.563	19.592	1.00	17.15
ATOM	1006	O	CYS	128	16.089	61.928	19.753	1.00	22.18
ATOM	1007	CB	CYS	128	12.973	61.195	21.060	1.00	14.37
ATOM	1008	SG	CYS	128	11.949	60.149	22.153	1.00	25.48
ATOM	1009	N	PHE	129	14.134	62.007	18.625	1.00	31.42
ATOM	1010	CA	PHE	129	14.582	62.974	17.647	1.00	25.56
ATOM	1011	CB	PHE	129	15.292	62.286	16.492	1.00	7.00
ATOM	1012	CG	PHE	129	16.749	62.022	16.750	1.00	12.63
ATOM	1013	CD1	PHE	129	17.253	60.732	16.709	1.00	13.28
ATOM	1014	CD2	PHE	129	17.620	63.068	16.994	1.00	11.29
ATOM	1015	CE1	PHE	129	18.594	60.487	16.901	1.00	15.49
ATOM	1016	CE2	PHE	129	18.964	62.826	17.185	1.00	7.19
ATOM	1017	CZ	PHE	129	19.451	61.530	17.136	1.00	16.30
ATOM	1018	C	PHE	129	13.351	63.685	17.158	1.00	24.74
ATOM	1019	O	PHE	129	12.410	63.063	16.677	1.00	19.23
ATOM	1020	N	LEU	130	13.328	64.990	17.361	1.00	14.44
ATOM	1021	CA	LEU	130	12.192	65.780	16.950	1.00	11.43

ATOM	1022	CB	LEU	130	11.653	66.584	18.131	1.00	6.46
ATOM	1023	CG	LEU	130	10.584	67.635	17.832	1.00	14.95
ATOM	1024	CD1	LEU	130	9.401	67.032	17.071	1.00	12.02
ATOM	1025	CD2	LEU	130	10.137	68.238	19.140	1.00	10.12
ATOM	1026	C	LEU	130	12.571	66.690	15.802	1.00	14.23
ATOM	1027	O	LEU	130	13.304	67.668	15.969	1.00	33.47
ATOM	1028	N	GLN	131	12.066	66.340	14.629	1.00	4.82
ATOM	1029	CA	GLN	131	12.320	67.096	13.423	1.00	8.45
ATOM	1030	CB	GLN	131	12.545	66.134	12.253	1.00	2.00
ATOM	1031	CG	GLN	131	12.803	66.800	10.927	1.00	2.00
ATOM	1032	CD	GLN	131	13.419	65.862	9.924	1.00	4.00
ATOM	1033	OE1	GLN	131	14.481	65.287	10.171	1.00	6.56
ATOM	1034	NE2	GLN	131	12.767	65.707	8.775	1.00	5.29
ATOM	1035	C	GLN	131	11.159	68.047	13.138	1.00	19.04
ATOM	1036	O	GLN	131	10.050	67.880	13.662	1.00	12.99
ATOM	1037	N	ASP	132	11.458	69.080	12.358	1.00	59.16
ATOM	1038	CA	ASP	132	10.492	70.089	11.952	1.00	67.08
ATOM	1039	CB	ASP	132	10.293	71.126	13.059	1.00	31.81
ATOM	1040	CG	ASP	132	9.148	72.082	12.768	1.00	38.45
ATOM	1041	OD1	ASP	132	8.850	72.342	11.577	1.00	33.33
ATOM	1042	OD2	ASP	132	8.542	72.574	13.746	1.00	41.68
ATOM	1043	C	ASP	132	11.086	70.741	10.712	1.00	69.52
ATOM	1044	O	ASP	132	11.734	71.788	10.790	1.00	25.14
ATOM	1045	N	GLY	133	10.884	70.090	9.573	1.00	52.45
ATOM	1046	CA	GLY	133	11.413	70.592	8.320	1.00	57.81
ATOM	1047	C	GLY	133	12.926	70.509	8.287	1.00	60.12
ATOM	1048	O	GLY	133	13.494	69.466	7.970	1.00	46.05
ATOM	1049	N	THR	134	13.579	71.617	8.620	1.00	99.00
ATOM	1050	CA	THR	134	15.034	71.675	8.631	1.00	100.00
ATOM	1051	CB	THR	134	15.546	73.079	8.180	1.00	61.73
ATOM	1052	OG1	THR	134	14.976	74.099	9.012	1.00	72.44
ATOM	1053	CG2	THR	134	15.170	73.350	6.727	1.00	60.65
ATOM	1054	C	THR	134	15.584	71.334	10.019	1.00	100.00
ATOM	1055	O	THR	134	16.406	70.425	10.166	1.00	68.54
ATOM	1056	N	LYS	135	15.081	72.033	11.034	1.00	87.38
ATOM	1057	CA	LYS	135	15.514	71.841	12.415	1.00	78.99
ATOM	1058	CB	LYS	135	14.906	72.919	13.318	1.00	53.81
ATOM	1059	CG	LYS	135	15.791	74.143	13.547	1.00	51.13
ATOM	1060	CD	LYS	135	16.454	74.155	14.936	1.00	48.79
ATOM	1061	CE	LYS	135	17.658	73.218	15.041	1.00	45.24
ATOM	1062	NZ	LYS	135	18.248	73.200	16.422	1.00	53.42
ATOM	1063	C	LYS	135	15.235	70.471	13.023	1.00	75.61
ATOM	1064	O	LYS	135	14.077	70.072	13.179	1.00	51.61
ATOM	1065	N	THR	136	16.313	69.775	13.390	1.00	36.03
ATOM	1066	CA	THR	136	16.230	68.465	14.024	1.00	29.75
ATOM	1067	CB	THR	136	16.779	67.363	13.120	1.00	35.93
ATOM	1068	OG1	THR	136	16.106	67.415	11.857	1.00	42.29
ATOM	1069	CG2	THR	136	16.564	65.988	13.766	1.00	41.32
ATOM	1070	C	THR	136	17.009	68.493	15.342	1.00	24.24
ATOM	1071	O	THR	136	18.193	68.839	15.384	1.00	28.81
ATOM	1072	N	VAL	137	16.330	68.133	16.422	1.00	22.55
ATOM	1073	CA	VAL	137	16.938	68.141	17.741	1.00	20.16
ATOM	1074	CB	VAL	137	16.333	69.279	18.579	1.00	12.68
ATOM	1075	CG1	VAL	137	16.564	70.606	17.896	1.00	21.97
ATOM	1076	CG2	VAL	137	14.850	69.057	18.775	1.00	12.29
ATOM	1077	C	VAL	137	16.752	66.810	18.476	1.00	19.38
ATOM	1078	O	VAL	137	15.744	66.126	18.297	1.00	28.50

ATOM	1079	N	GLU	138	17.744	66.429	19.276	1.00	3.95
ATOM	1080	CA	GLU	138	17.671	65.197	20.046	1.00	2.00
ATOM	1081	CB	GLU	138	19.070	64.697	20.370	1.00	6.48
ATOM	1082	CG	GLU	138	19.079	63.397	21.147	1.00	13.17
ATOM	1083	CD	GLU	138	20.355	62.582	20.951	1.00	19.94
ATOM	1084	OE1	GLU	138	20.544	61.603	21.688	1.00	30.52
ATOM	1085	OE2	GLU	138	21.165	62.886	20.050	1.00	21.75
ATOM	1086	C	GLU	138	16.922	65.449	21.350	1.00	2.00
ATOM	1087	O	GLU	138	17.197	66.427	22.046	1.00	11.41
ATOM	1088	N	TYR	139	15.936	64.607	21.654	1.00	3.88
ATOM	1089	CA	TYR	139	15.196	64.731	22.910	1.00	2.66
ATOM	1090	CB	TYR	139	13.716	64.968	22.661	1.00	2.00
ATOM	1091	CG	TYR	139	12.870	64.938	23.914	1.00	2.00
ATOM	1092	CD1	TYR	139	13.261	65.604	25.075	1.00	2.00
ATOM	1093	CE1	TYR	139	12.438	65.628	26.216	1.00	5.47
ATOM	1094	CD2	TYR	139	11.644	64.293	23.919	1.00	2.00
ATOM	1095	CE2	TYR	139	10.822	64.308	25.039	1.00	2.16
ATOM	1096	CZ	TYR	139	11.212	64.982	26.175	1.00	10.77
ATOM	1097	OH	TYR	139	10.336	65.034	27.229	1.00	20.92
ATOM	1098	C	TYR	139	15.411	63.461	23.733	1.00	7.05
ATOM	1099	O	TYR	139	14.913	62.396	23.385	1.00	32.23
ATOM	1100	N	ALA	140	16.174	63.581	24.815	1.00	2.00
ATOM	1101	CA	ALA	140	16.488	62.445	25.677	1.00	2.00
ATOM	1102	CB	ALA	140	17.937	62.023	25.464	1.00	2.00
ATOM	1103	C	ALA	140	16.254	62.794	27.132	1.00	2.00
ATOM	1104	O	ALA	140	17.183	62.843	27.926	1.00	2.00
ATOM	1105	N	PRO	141	14.990	62.961	27.516	1.00	2.00
ATOM	1106	CD	PRO	141	13.798	62.569	26.754	1.00	29.89
ATOM	1107	CA	PRO	141	14.630	63.309	28.889	1.00	2.00
ATOM	1108	CB	PRO	141	13.109	63.227	28.865	1.00	28.97
ATOM	1109	CG	PRO	141	12.851	62.175	27.845	1.00	43.79
ATOM	1110	C	PRO	141	15.220	62.384	29.939	1.00	2.00
ATOM	1111	O	PRO	141	15.398	62.776	31.091	1.00	49.79
ATOM	1112	N	CYS	142	15.546	61.164	29.538	1.00	40.60
ATOM	1113	CA	CYS	142	16.100	60.201	30.475	1.00	42.73
ATOM	1114	C	CYS	142	17.611	60.145	30.539	1.00	34.31
ATOM	1115	O	CYS	142	18.161	59.429	31.374	1.00	18.78
ATOM	1116	CB	CYS	142	15.534	58.808	30.216	1.00	39.71
ATOM	1117	SG	CYS	142	14.117	58.385	31.273	1.00	55.81
ATOM	1118	N	ARG	143	18.287	60.871	29.654	1.00	2.00
ATOM	1119	CA	ARG	143	19.747	60.883	29.662	1.00	3.48
ATOM	1120	CB	ARG	143	20.282	61.114	28.240	1.00	33.29
ATOM	1121	CG	ARG	143	21.808	61.084	28.099	1.00	23.76
ATOM	1122	CD	ARG	143	22.244	61.131	26.625	1.00	9.49
ATOM	1123	NE	ARG	143	21.692	62.266	25.886	1.00	17.55
ATOM	1124	CZ	ARG	143	21.857	62.465	24.581	1.00	37.17
ATOM	1125	NH1	ARG	143	22.565	61.610	23.858	1.00	37.45
ATOM	1126	NH2	ARG	143	21.297	63.512	23.991	1.00	45.23
ATOM	1127	C	ARG	143	20.250	61.949	30.655	1.00	13.20
ATOM	1128	O	ARG	143	20.821	62.974	30.271	1.00	46.69
ATOM	1129	N	SER	144	20.026	61.691	31.941	1.00	34.33
ATOM	1130	CA	SER	144	20.424	62.615	32.992	1.00	40.26
ATOM	1131	CB	SER	144	19.290	62.795	34.002	1.00	72.12
ATOM	1132	OG	SER	144	18.165	63.415	33.399	1.00	65.21
ATOM	1133	C	SER	144	21.685	62.206	33.716	1.00	45.04
ATOM	1134	O	SER	144	22.312	61.191	33.396	1.00	76.16
ATOM	1135	N	GLN	145	22.050	63.026	34.695	1.00	66.04

ATOM	1136	CA	GLN	145	23.235	62.795	35.502	1.00	74.54
ATOM	1137	CB	GLN	145	23.600	64.068	36.270	1.00	77.84
ATOM	1138	CG	GLN	145	25.082	64.463	36.186	1.00	76.45
ATOM	1139	CD	GLN	145	25.470	65.082	34.855	1.00	71.29
ATOM	1140	OE1	GLN	145	26.328	64.562	34.133	1.00	72.35
ATOM	1141	NE2	GLN	145	24.850	66.209	34.533	1.00	61.63
ATOM	1142	C	GLN	145	22.988	61.628	36.456	1.00	73.27
ATOM	1143	O	GLN	145	23.923	60.925	36.836	1.00	66.89
ATOM	1144	N	ASP	146	21.727	61.444	36.848	1.00	51.77
ATOM	1145	CA	ASP	146	21.315	60.340	37.723	1.00	49.57
ATOM	1146	CB	ASP	146	19.941	60.634	38.331	1.00	73.09
ATOM	1147	CG	ASP	146	19.133	59.377	38.587	1.00	82.60
ATOM	1148	OD1	ASP	146	19.575	58.532	39.392	1.00	83.41
ATOM	1149	OD2	ASP	146	18.068	59.228	37.959	1.00	83.41
ATOM	1150	C	ASP	146	21.251	59.071	36.868	1.00	43.81
ATOM	1151	O	ASP	146	20.376	58.925	36.010	1.00	55.47
ATOM	1152	N	ILE	147	22.138	58.128	37.139	1.00	47.34
ATOM	1153	CA	ILE	147	22.170	56.935	36.321	1.00	39.15
ATOM	1154	CB	ILE	147	23.451	56.931	35.432	1.00	10.47
ATOM	1155	CG2	ILE	147	23.240	57.821	34.206	1.00	16.52
ATOM	1156	CG1	ILE	147	24.660	57.427	36.216	1.00	3.03
ATOM	1157	CD1	ILE	147	25.180	56.463	37.177	1.00	3.03
ATOM	1158	C	ILE	147	21.973	55.585	37.003	1.00	43.49
ATOM	1159	O	ILE	147	21.423	55.503	38.110	1.00	24.64
ATOM	1160	N	ASP	148	22.391	54.534	36.289	1.00	25.83
ATOM	1161	CA	ASP	148	22.305	53.140	36.722	1.00	20.46
ATOM	1162	CB	ASP	148	23.084	52.906	38.022	1.00	37.57
ATOM	1163	CG	ASP	148	24.582	53.202	37.878	1.00	47.03
ATOM	1164	OD1	ASP	148	25.216	53.540	38.897	1.00	51.93
ATOM	1165	OD2	ASP	148	25.128	53.104	36.757	1.00	42.93
ATOM	1166	C	ASP	148	20.859	52.728	36.863	1.00	13.82
ATOM	1167	O	ASP	148	19.969	53.550	36.706	1.00	12.85
ATOM	1168	N	ALA	149	20.623	51.449	37.128	1.00	36.54
ATOM	1169	CA	ALA	149	19.263	50.934	37.259	1.00	31.63
ATOM	1170	CB	ALA	149	19.292	49.451	37.581	1.00	11.64
ATOM	1171	C	ALA	149	18.424	51.687	38.286	1.00	35.14
ATOM	1172	O	ALA	149	17.267	51.987	38.021	1.00	15.85
ATOM	1173	N	ASP	150	19.022	52.012	39.435	1.00	13.05
ATOM	1174	CA	ASP	150	18.343	52.743	40.516	1.00	12.43
ATOM	1175	CB	ASP	150	19.267	52.900	41.738	1.00	66.99
ATOM	1176	CG	ASP	150	20.552	53.655	41.419	1.00	91.13
ATOM	1177	OD1	ASP	150	20.619	54.871	41.698	1.00	92.51
ATOM	1178	OD2	ASP	150	21.502	53.029	40.902	1.00	100.00
ATOM	1179	C	ASP	150	17.835	54.116	40.077	1.00	7.72
ATOM	1180	O	ASP	150	16.982	54.716	40.734	1.00	52.91
ATOM	1181	N	GLY	151	18.369	54.607	38.963	1.00	23.56
ATOM	1182	CA	GLY	151	17.960	55.897	38.447	1.00	9.22
ATOM	1183	C	GLY	151	17.159	55.792	37.168	1.00	2.39
ATOM	1184	O	GLY	151	16.018	55.351	37.168	1.00	17.89
ATOM	1185	N	GLN	152	17.757	56.216	36.067	1.00	2.37
ATOM	1186	CA	GLN	152	17.081	56.178	34.778	1.00	10.84
ATOM	1187	CB	GLN	152	16.756	57.608	34.306	1.00	31.66
ATOM	1188	CG	GLN	152	16.121	58.493	35.381	1.00	29.69
ATOM	1189	CD	GLN	152	15.637	59.825	34.860	1.00	39.25
ATOM	1190	OE1	GLN	152	16.346	60.521	34.142	1.00	45.09
ATOM	1191	NE2	GLN	152	14.421	60.195	35.238	1.00	43.21
ATOM	1192	C	GLN	152	17.983	55.488	33.765	1.00	13.72

ATOM	1193	O	GLN	152	17.784	55.606	32.555	1.00	22.32
ATOM	1194	N	GLY	153	18.977	54.766	34.271	1.00	36.33
ATOM	1195	CA	GLY	153	19.906	54.074	33.405	1.00	36.78
ATOM	1196	C	GLY	153	19.234	53.160	32.403	1.00	39.33
ATOM	1197	O	GLY	153	19.663	53.082	31.255	1.00	5.84
ATOM	1198	N	PHE	154	18.148	52.513	32.811	1.00	15.63
ATOM	1199	CA	PHE	154	17.453	51.581	31.927	1.00	16.60
ATOM	1200	CB	PHE	154	17.466	50.196	32.558	1.00	14.79
ATOM	1201	CG	PHE	154	18.848	49.714	32.865	1.00	6.68
ATOM	1202	CD1	PHE	154	19.555	50.235	33.943	1.00	9.82
ATOM	1203	CD2	PHE	154	19.484	48.808	32.026	1.00	2.00
ATOM	1204	CE1	PHE	154	20.876	49.865	34.170	1.00	15.39
ATOM	1205	CE2	PHE	154	20.807	48.434	32.250	1.00	7.05
ATOM	1206	CZ	PHE	154	21.503	48.963	33.319	1.00	13.90
ATOM	1207	C	PHE	154	16.050	52.028	31.590	1.00	19.38
ATOM	1208	O	PHE	154	15.176	51.226	31.260	1.00	24.84
ATOM	1209	N	CYS	155	15.889	53.341	31.591	1.00	9.74
ATOM	1210	CA	CYS	155	14.636	54.011	31.310	1.00	6.86
ATOM	1211	C	CYS	155	13.999	53.642	29.980	1.00	2.00
ATOM	1212	O	CYS	155	12.785	53.439	29.904	1.00	2.00
ATOM	1213	CB	CYS	155	14.885	55.509	31.365	1.00	12.71
ATOM	1214	SG	CYS	155	13.616	56.543	30.608	1.00	30.30
ATOM	1215	N	GLN	156	14.822	53.540	28.939	1.00	15.81
ATOM	1216	CA	GLN	156	14.332	53.218	27.601	1.00	14.97
ATOM	1217	CB	GLN	156	13.897	51.746	27.506	1.00	7.43
ATOM	1218	CG	GLN	156	15.045	50.757	27.373	1.00	21.98
ATOM	1219	CD	GLN	156	14.608	49.305	27.524	1.00	12.50
ATOM	1220	OE1	GLN	156	14.437	48.587	26.537	1.00	2.03
ATOM	1221	NE2	GLN	156	14.461	48.859	28.772	1.00	15.04
ATOM	1222	C	GLN	156	13.180	54.161	27.232	1.00	13.76
ATOM	1223	O	GLN	156	12.179	53.746	26.647	1.00	16.06
ATOM	1224	N	GLY	157	13.313	55.419	27.643	1.00	2.00
ATOM	1225	CA	GLY	157	12.317	56.425	27.341	1.00	2.00
ATOM	1226	C	GLY	157	12.190	56.480	25.840	1.00	2.00
ATOM	1227	O	GLY	157	13.181	56.489	25.131	1.00	2.00
ATOM	1228	N	GLY	158	10.960	56.480	25.356	1.00	10.31
ATOM	1229	CA	GLY	158	10.726	56.493	23.924	1.00	12.91
ATOM	1230	C	GLY	158	9.978	55.230	23.551	1.00	21.05
ATOM	1231	O	GLY	158	9.672	54.976	22.382	1.00	8.09
ATOM	1232	N	PHE	159	9.726	54.411	24.566	1.00	10.83
ATOM	1233	CA	PHE	159	8.998	53.176	24.404	1.00	12.34
ATOM	1234	CB	PHE	159	8.882	52.491	25.767	1.00	16.44
ATOM	1235	CG	PHE	159	8.664	51.001	25.686	1.00	14.34
ATOM	1236	CD1	PHE	159	9.726	50.143	25.389	1.00	14.74
ATOM	1237	CD2	PHE	159	7.391	50.457	25.867	1.00	16.13
ATOM	1238	CE1	PHE	159	9.523	48.776	25.270	1.00	16.19
ATOM	1239	CE2	PHE	159	7.185	49.093	25.752	1.00	17.70
ATOM	1240	CZ	PHE	159	8.249	48.252	25.449	1.00	17.16
ATOM	1241	C	PHE	159	7.610	53.544	23.842	1.00	11.14
ATOM	1242	O	PHE	159	7.129	52.926	22.889	1.00	14.26
ATOM	1243	N	SER	160	7.034	54.625	24.369	1.00	21.71
ATOM	1244	CA	SER	160	5.717	55.110	23.953	1.00	26.91
ATOM	1245	CB	SER	160	4.651	54.537	24.882	1.00	26.33
ATOM	1246	OG	SER	160	4.938	54.862	26.231	1.00	23.18
ATOM	1247	C	SER	160	5.635	56.639	23.991	1.00	33.32
ATOM	1248	O	SER	160	5.861	57.248	25.039	1.00	39.03
ATOM	1249	N	ILE	161	5.262	57.259	22.871	1.00	9.17

ATOM	1250	CA	ILE	161	5.159	58.722	22.810	1.00	5.57
ATOM	1251	CB	ILE	161	6.246	59.324	21.876	1.00	6.96
ATOM	1252	CG2	ILE	161	7.594	59.435	22.623	1.00	14.01
ATOM	1253	CG1	ILE	161	6.330	58.519	20.567	1.00	3.80
ATOM	1254	CD1	ILE	161	7.456	58.939	19.631	1.00	5.32
ATOM	1255	C	ILE	161	3.784	59.219	22.374	1.00	18.48
ATOM	1256	O	ILE	161	2.967	58.431	21.906	1.00	16.05
ATOM	1257	N	ASP	162	3.535	60.521	22.543	1.00	33.23
ATOM	1258	CA	ASP	162	2.258	61.146	22.163	1.00	30.90
ATOM	1259	CB	ASP	162	1.085	60.476	22.915	1.00	31.27
ATOM	1260	CG	ASP	162	-0.084	60.087	21.995	1.00	44.56
ATOM	1261	OD1	ASP	162	-0.881	59.213	22.400	1.00	47.63
ATOM	1262	OD2	ASP	162	-0.219	60.646	20.881	1.00	62.45
ATOM	1263	C	ASP	162	2.250	62.660	22.449	1.00	22.44
ATOM	1264	O	ASP	162	2.866	63.116	23.412	1.00	18.29
ATOM	1265	N	PHE	163	1.550	63.423	21.603	1.00	2.00
ATOM	1266	CA	PHE	163	1.418	64.880	21.754	1.00	2.00
ATOM	1267	CB	PHE	163	1.468	65.606	20.387	1.00	8.54
ATOM	1268	CG	PHE	163	2.780	65.487	19.637	1.00	14.80
ATOM	1269	CD1	PHE	163	2.891	64.644	18.530	1.00	14.83
ATOM	1270	CD2	PHE	163	3.878	66.260	19.985	1.00	2.93
ATOM	1271	CE1	PHE	163	4.075	64.575	17.772	1.00	2.00
ATOM	1272	CE2	PHE	163	5.066	66.197	19.232	1.00	2.00
ATOM	1273	CZ	PHE	163	5.157	65.351	18.124	1.00	2.00
ATOM	1274	C	PHE	163	0.044	65.207	22.346	1.00	4.35
ATOM	1275	O	PHE	163	-0.898	64.440	22.185	1.00	11.51
ATOM	1276	N	THR	164	-0.070	66.351	23.019	1.00	17.66
ATOM	1277	CA	THR	164	-1.360	66.817	23.543	1.00	23.81
ATOM	1278	CB	THR	164	-1.261	67.373	24.973	1.00	6.91
ATOM	1279	OG1	THR	164	-0.639	68.661	24.966	1.00	16.60
ATOM	1280	CG2	THR	164	-0.457	66.431	25.837	1.00	9.19
ATOM	1281	C	THR	164	-1.735	67.931	22.560	1.00	33.24
ATOM	1282	O	THR	164	-0.859	68.394	21.821	1.00	26.37
ATOM	1283	N	LYS	165	-2.998	68.367	22.522	1.00	22.25
ATOM	1284	CA	LYS	165	-3.376	69.409	21.553	1.00	21.96
ATOM	1285	CB	LYS	165	-4.899	69.610	21.475	1.00	41.09
ATOM	1286	CG	LYS	165	-5.563	70.308	22.661	1.00	51.17
ATOM	1287	CD	LYS	165	-7.107	70.234	22.558	1.00	46.55
ATOM	1288	CE	LYS	165	-7.693	71.097	21.441	1.00	66.63
ATOM	1289	NZ	LYS	165	-7.778	72.543	21.804	1.00	61.74
ATOM	1290	C	LYS	165	-2.639	70.726	21.773	1.00	24.60
ATOM	1291	O	LYS	165	-2.368	71.466	20.823	1.00	45.56
ATOM	1292	N	ALA	166	-2.251	70.960	23.025	1.00	29.28
ATOM	1293	CA	ALA	166	-1.505	72.148	23.425	1.00	28.05
ATOM	1294	CB	ALA	166	-1.613	72.335	24.930	1.00	34.29
ATOM	1295	C	ALA	166	-0.034	72.004	23.027	1.00	26.59
ATOM	1296	O	ALA	166	0.829	72.702	23.559	1.00	22.78
ATOM	1297	N	ASP	167	0.240	71.093	22.097	1.00	44.76
ATOM	1298	CA	ASP	167	1.596	70.829	21.630	1.00	37.12
ATOM	1299	CB	ASP	167	2.084	71.974	20.733	1.00	67.73
ATOM	1300	CG	ASP	167	3.383	71.645	20.012	1.00	91.45
ATOM	1301	OD1	ASP	167	3.478	70.568	19.384	1.00	97.86
ATOM	1302	OD2	ASP	167	4.314	72.475	20.069	1.00	100.00
ATOM	1303	C	ASP	167	2.546	70.589	22.818	1.00	36.01
ATOM	1304	O	ASP	167	3.284	71.486	23.250	1.00	68.33
ATOM	1305	N	ARG	168	2.499	69.370	23.352	1.00	36.99
ATOM	1306	CA	ARG	168	3.320	68.978	24.489	1.00	29.44

ATOM	1307	CB	ARG	168	2.606	69.362	25.783	1.00	2.00
ATOM	1308	CG	ARG	168	3.363	68.969	27.003	1.00	2.00
ATOM	1309	CD	ARG	168	2.912	69.724	28.216	1.00	2.18
ATOM	1310	NE	ARG	168	4.033	69.890	29.129	1.00	23.68
ATOM	1311	CZ	ARG	168	3.950	70.463	30.319	1.00	29.34
ATOM	1312	NH1	ARG	168	2.789	70.922	30.759	1.00	31.04
ATOM	1313	NH2	ARG	168	5.039	70.618	31.048	1.00	29.96
ATOM	1314	C	ARG	168	3.510	67.470	24.433	1.00	38.28
ATOM	1315	O	ARG	168	2.527	66.739	24.368	1.00	39.82
ATOM	1316	N	VAL	169	4.752	66.990	24.483	1.00	2.00
ATOM	1317	CA	VAL	169	4.975	65.548	24.400	1.00	2.00
ATOM	1318	CB	VAL	169	6.255	65.175	23.603	1.00	2.00
ATOM	1319	CG1	VAL	169	6.592	66.262	22.578	1.00	13.68
ATOM	1320	CG2	VAL	169	7.422	64.891	24.542	1.00	18.74
ATOM	1321	C	VAL	169	4.970	64.776	25.713	1.00	3.24
ATOM	1322	O	VAL	169	5.517	65.223	26.722	1.00	2.00
ATOM	1323	N	LEU	170	4.338	63.604	25.656	1.00	39.72
ATOM	1324	CA	LEU	170	4.227	62.669	26.773	1.00	31.61
ATOM	1325	CB	LEU	170	2.806	62.128	26.875	1.00	2.93
ATOM	1326	CG	LEU	170	2.204	61.774	28.235	1.00	11.68
ATOM	1327	CD1	LEU	170	0.963	60.946	27.985	1.00	19.88
ATOM	1328	CD2	LEU	170	3.154	61.033	29.124	1.00	2.00
ATOM	1329	C	LEU	170	5.144	61.522	26.385	1.00	28.37
ATOM	1330	O	LEU	170	5.066	61.005	25.265	1.00	6.65
ATOM	1331	N	LEU	171	5.984	61.090	27.311	1.00	7.40
ATOM	1332	CA	LEU	171	6.918	60.024	27.000	1.00	14.93
ATOM	1333	CB	LEU	171	8.330	60.610	26.947	1.00	2.00
ATOM	1334	CG	LEU	171	9.506	59.846	26.352	1.00	2.00
ATOM	1335	CD1	LEU	171	10.309	60.761	25.445	1.00	2.00
ATOM	1336	CD2	LEU	171	10.377	59.317	27.480	1.00	2.00
ATOM	1337	C	LEU	171	6.823	58.913	28.027	1.00	23.92
ATOM	1338	O	LEU	171	6.386	59.137	29.153	1.00	24.11
ATOM	1339	N	GLY	172	7.227	57.711	27.627	1.00	10.27
ATOM	1340	CA	GLY	172	7.176	56.578	28.531	1.00	9.25
ATOM	1341	C	GLY	172	8.488	55.830	28.610	1.00	6.02
ATOM	1342	O	GLY	172	9.000	55.347	27.603	1.00	12.66
ATOM	1343	N	GLY	173	9.047	55.773	29.811	1.00	2.18
ATOM	1344	CA	GLY	173	10.291	55.065	30.041	1.00	2.62
ATOM	1345	C	GLY	173	9.971	54.057	31.121	1.00	9.49
ATOM	1346	O	GLY	173	9.908	54.432	32.303	1.00	11.32
ATOM	1347	N	PRO	174	9.761	52.771	30.748	1.00	2.29
ATOM	1348	CD	PRO	174	9.960	52.272	29.377	1.00	15.94
ATOM	1349	CA	PRO	174	9.427	51.655	31.645	1.00	5.47
ATOM	1350	CB	PRO	174	9.190	50.487	30.681	1.00	20.29
ATOM	1351	CG	PRO	174	9.001	51.132	29.337	1.00	19.19
ATOM	1352	C	PRO	174	10.505	51.293	32.643	1.00	11.60
ATOM	1353	O	PRO	174	10.219	51.100	33.815	1.00	35.06
ATOM	1354	N	GLY	175	11.747	51.215	32.179	1.00	3.19
ATOM	1355	CA	GLY	175	12.840	50.835	33.055	1.00	4.48
ATOM	1356	C	GLY	175	13.338	51.849	34.058	1.00	2.00
ATOM	1357	O	GLY	175	14.326	51.598	34.751	1.00	2.00
ATOM	1358	N	SER	176	12.675	52.996	34.135	1.00	23.49
ATOM	1359	CA	SER	176	13.092	54.033	35.065	1.00	31.32
ATOM	1360	CB	SER	176	12.319	55.327	34.852	1.00	20.98
ATOM	1361	OG	SER	176	12.952	56.110	33.859	1.00	19.66
ATOM	1362	C	SER	176	12.978	53.570	36.493	1.00	33.51
ATOM	1363	O	SER	176	11.996	52.929	36.875	1.00	31.89

ATOM	1364	N	PHE	177	13.999	53.923	37.271	1.00	77.02
ATOM	1365	CA	PHE	177	14.111	53.547	38.674	1.00	77.75
ATOM	1366	CB	PHE	177	12.891	54.033	39.449	1.00	9.49
ATOM	1367	CG	PHE	177	12.575	55.464	39.166	1.00	15.99
ATOM	1368	CD1	PHE	177	11.265	55.880	38.946	1.00	29.71
ATOM	1369	CD2	PHE	177	13.620	56.384	38.973	1.00	2.00
ATOM	1370	CE1	PHE	177	10.994	57.184	38.523	1.00	29.14
ATOM	1371	CE2	PHE	177	13.363	57.681	38.553	1.00	2.00
ATOM	1372	CZ	PHE	177	12.047	58.082	38.326	1.00	24.87
ATOM	1373	C	PHE	177	14.199	52.055	38.588	1.00	83.24
ATOM	1374	O	PHE	177	14.900	51.533	37.718	1.00	47.13
ATOM	1375	N	TYR	178	13.489	51.345	39.440	1.00	16.33
ATOM	1376	CA	TYR	178	13.569	49.919	39.316	1.00	5.14
ATOM	1377	CB	TYR	178	13.746	49.286	40.674	1.00	22.24
ATOM	1378	CG	TYR	178	15.165	49.404	41.171	1.00	16.97
ATOM	1379	CD1	TYR	178	16.233	49.036	40.356	1.00	18.33
ATOM	1380	CE1	TYR	178	17.548	49.083	40.822	1.00	10.27
ATOM	1381	CD2	TYR	178	15.443	49.851	42.463	1.00	24.69
ATOM	1382	CE2	TYR	178	16.756	49.905	42.944	1.00	25.94
ATOM	1383	CZ	TYR	178	17.801	49.525	42.113	1.00	20.05
ATOM	1384	OH	TYR	178	19.095	49.556	42.571	1.00	25.25
ATOM	1385	C	TYR	178	12.400	49.377	38.510	1.00	2.87
ATOM	1386	O	TYR	178	11.399	48.919	39.045	1.00	26.54
ATOM	1387	N	TRP	179	12.514	49.588	37.203	1.00	2.00
ATOM	1388	CA	TRP	179	11.552	49.160	36.212	1.00	2.00
ATOM	1389	CB	TRP	179	11.778	47.696	35.879	1.00	2.56
ATOM	1390	CG	TRP	179	13.216	47.399	35.675	1.00	9.59
ATOM	1391	CD2	TRP	179	13.896	47.343	34.431	1.00	2.36
ATOM	1392	CE2	TRP	179	15.267	47.107	34.714	1.00	10.59
ATOM	1393	CE3	TRP	179	13.491	47.473	33.103	1.00	15.13
ATOM	1394	CD1	TRP	179	14.164	47.192	36.646	1.00	20.52
ATOM	1395	NE1	TRP	179	15.402	47.018	36.073	1.00	6.77
ATOM	1396	CZ2	TRP	179	16.229	47.002	33.714	1.00	22.90
ATOM	1397	CZ3	TRP	179	14.451	47.370	32.097	1.00	35.60
ATOM	1398	CH2	TRP	179	15.806	47.136	32.410	1.00	37.90
ATOM	1399	C	TRP	179	10.111	49.428	36.578	1.00	2.00
ATOM	1400	O	TRP	179	9.202	48.751	36.105	1.00	24.56
ATOM	1401	N	GLN	180	9.907	50.420	37.429	1.00	2.00
ATOM	1402	CA	GLN	180	8.571	50.820	37.823	1.00	2.00
ATOM	1403	CB	GLN	180	8.639	51.765	39.006	1.00	10.00
ATOM	1404	CG	GLN	180	9.730	51.415	40.001	1.00	15.72
ATOM	1405	CD	GLN	180	9.768	52.361	41.176	1.00	19.32
ATOM	1406	OE1	GLN	180	10.691	52.318	41.979	1.00	18.16
ATOM	1407	NE2	GLN	180	8.753	53.220	41.290	1.00	17.02
ATOM	1408	C	GLN	180	8.039	51.575	36.621	1.00	2.00
ATOM	1409	O	GLN	180	6.939	51.327	36.148	1.00	32.46
ATOM	1410	N	GLY	181	8.871	52.466	36.099	1.00	13.75
ATOM	1411	CA	GLY	181	8.493	53.241	34.941	1.00	10.48
ATOM	1412	C	GLY	181	8.485	54.722	35.226	1.00	13.08
ATOM	1413	O	GLY	181	8.801	55.162	36.341	1.00	25.39
ATOM	1414	N	GLN	182	8.093	55.499	34.221	1.00	26.01
ATOM	1415	CA	GLN	182	8.044	56.942	34.366	1.00	23.76
ATOM	1416	CB	GLN	182	9.457	57.495	34.517	1.00	13.04
ATOM	1417	CG	GLN	182	9.539	58.995	34.578	1.00	10.56
ATOM	1418	CD	GLN	182	10.905	59.456	34.995	1.00	19.21
ATOM	1419	OE1	GLN	182	11.897	59.209	34.309	1.00	19.48
ATOM	1420	NE2	GLN	182	10.976	60.117	36.137	1.00	25.67

ATOM	1421	C	GLN	182	7.394	57.627	33.197	1.00	18.78
ATOM	1422	O	GLN	182	7.464	57.144	32.077	1.00	2.00
ATOM	1423	N	LEU	183	6.741	58.748	33.482	1.00	17.24
ATOM	1424	CA	LEU	183	6.119	59.565	32.453	1.00	22.45
ATOM	1425	CB	LEU	183	4.628	59.743	32.716	1.00	2.00
ATOM	1426	CG	LEU	183	3.798	58.467	32.662	1.00	2.00
ATOM	1427	CD1	LEU	183	2.325	58.804	32.525	1.00	2.00
ATOM	1428	CD2	LEU	183	4.242	57.648	31.474	1.00	2.00
ATOM	1429	C	LEU	183	6.838	60.917	32.451	1.00	29.38
ATOM	1430	O	LEU	183	7.282	61.388	33.499	1.00	29.68
ATOM	1431	N	ILE	184	7.029	61.497	31.267	1.00	31.53
ATOM	1432	CA	ILE	184	7.714	62.780	31.152	1.00	24.46
ATOM	1433	CB	ILE	184	9.218	62.589	30.903	1.00	2.00
ATOM	1434	CG2	ILE	184	9.938	63.927	30.952	1.00	2.00
ATOM	1435	CG1	ILE	184	9.814	61.683	31.971	1.00	2.00
ATOM	1436	CD1	ILE	184	11.181	61.171	31.609	1.00	2.00
ATOM	1437	C	ILE	184	7.134	63.660	30.041	1.00	27.04
ATOM	1438	O	ILE	184	7.303	63.382	28.840	1.00	2.00
ATOM	1439	N	SER	185	6.436	64.718	30.451	1.00	18.35
ATOM	1440	CA	SER	185	5.852	65.645	29.497	1.00	13.90
ATOM	1441	CB	SER	185	4.378	65.900	29.769	1.00	2.00
ATOM	1442	OG	SER	185	3.733	66.240	28.556	1.00	2.00
ATOM	1443	C	SER	185	6.613	66.952	29.475	1.00	16.06
ATOM	1444	O	SER	185	6.829	67.592	30.498	1.00	2.00
ATOM	1445	N	ASP	186	7.076	67.296	28.286	1.00	9.98
ATOM	1446	CA	ASP	186	7.832	68.507	28.064	1.00	13.68
ATOM	1447	CB	ASP	186	9.271	68.177	27.679	1.00	16.85
ATOM	1448	CG	ASP	186	10.171	68.043	28.881	1.00	25.51
ATOM	1449	OD1	ASP	186	10.316	69.036	29.620	1.00	33.32
ATOM	1450	OD2	ASP	186	10.743	66.955	29.087	1.00	23.24
ATOM	1451	C	ASP	186	7.167	69.192	26.917	1.00	15.87
ATOM	1452	O	ASP	186	6.734	68.529	25.982	1.00	22.42
ATOM	1453	N	GLN	187	7.020	70.506	27.017	1.00	34.54
ATOM	1454	CA	GLN	187	6.409	71.275	25.941	1.00	27.57
ATOM	1455	CB	GLN	187	5.876	72.606	26.479	1.00	12.10
ATOM	1456	CG	GLN	187	6.716	73.199	27.598	1.00	22.89
ATOM	1457	CD	GLN	187	6.081	74.419	28.247	1.00	31.77
ATOM	1458	OE1	GLN	187	5.264	74.290	29.161	1.00	35.47
ATOM	1459	NE2	GLN	187	6.477	75.611	27.798	1.00	37.38
ATOM	1460	C	GLN	187	7.457	71.496	24.852	1.00	24.22
ATOM	1461	O	GLN	187	8.631	71.728	25.155	1.00	19.37
ATOM	1462	N	VAL	188	7.059	71.339	23.589	1.00	6.68
ATOM	1463	CA	VAL	188	7.979	71.547	22.462	1.00	6.81
ATOM	1464	CB	VAL	188	7.252	71.378	21.134	1.00	19.54
ATOM	1465	CG1	VAL	188	8.249	71.252	20.004	1.00	20.09
ATOM	1466	CG2	VAL	188	6.287	70.200	21.205	1.00	17.50
ATOM	1467	C	VAL	188	8.421	72.998	22.545	1.00	21.88
ATOM	1468	O	VAL	188	7.831	73.783	23.300	1.00	47.45
ATOM	1469	N	ALA	189	9.398	73.388	21.735	1.00	66.77
ATOM	1470	CA	ALA	189	9.908	74.764	21.759	1.00	71.65
ATOM	1471	CB	ALA	189	8.789	75.791	21.638	1.00	37.93
ATOM	1472	C	ALA	189	10.661	74.950	23.057	1.00	71.62
ATOM	1473	O	ALA	189	11.411	75.894	23.199	1.00	42.62
ATOM	1474	N	GLU	190	10.342	74.122	24.047	1.00	29.28
ATOM	1475	CA	GLU	190	11.059	74.125	25.309	1.00	33.95
ATOM	1476	CB	GLU	190	10.155	73.832	26.498	1.00	67.74
ATOM	1477	CG	GLU	190	10.916	73.791	27.808	1.00	84.54

ATOM	1478	CD	GLU	190	10.011	73.871	29.010	1.00	94.59
ATOM	1479	OE1	GLU	190	9.797	74.999	29.502	1.00	96.28
ATOM	1480	OE2	GLU	190	9.515	72.813	29.459	1.00	96.28
ATOM	1481	C	GLU	190	12.013	72.973	25.071	1.00	28.65
ATOM	1482	O	GLU	190	13.057	72.875	25.700	1.00	56.22
ATOM	1483	N	ILE	191	11.632	72.111	24.131	1.00	34.40
ATOM	1484	CA	ILE	191	12.444	70.977	23.730	1.00	29.04
ATOM	1485	CB	ILE	191	11.571	69.798	23.231	1.00	24.21
ATOM	1486	CG2	ILE	191	12.456	68.674	22.726	1.00	26.21
ATOM	1487	CG1	ILE	191	10.684	69.277	24.370	1.00	21.75
ATOM	1488	CD1	ILE	191	9.654	68.259	23.939	1.00	15.05
ATOM	1489	C	ILE	191	13.307	71.503	22.591	1.00	26.42
ATOM	1490	O	ILE	191	14.504	71.213	22.520	1.00	23.98
ATOM	1491	N	VAL	192	12.684	72.302	21.722	1.00	46.26
ATOM	1492	CA	VAL	192	13.361	72.914	20.577	1.00	55.42
ATOM	1493	CB	VAL	192	12.350	73.461	19.521	1.00	20.75
ATOM	1494	CG1	VAL	192	12.843	74.766	18.918	1.00	24.42
ATOM	1495	CG2	VAL	192	12.149	72.445	18.403	1.00	27.02
ATOM	1496	C	VAL	192	14.274	74.042	21.031	1.00	60.62
ATOM	1497	O	VAL	192	15.456	74.063	20.688	1.00	32.98
ATOM	1498	N	SER	193	13.719	74.993	21.777	1.00	27.81
ATOM	1499	CA	SER	193	14.517	76.114	22.257	1.00	18.28
ATOM	1500	CB	SER	193	13.687	77.401	22.359	1.00	33.72
ATOM	1501	OG	SER	193	13.053	77.522	23.624	1.00	27.97
ATOM	1502	C	SER	193	15.177	75.792	23.590	1.00	16.67
ATOM	1503	O	SER	193	14.824	76.351	24.634	1.00	29.35
ATOM	1504	N	LYS	194	16.119	74.856	23.544	1.00	26.42
ATOM	1505	CA	LYS	194	16.870	74.442	24.724	1.00	24.87
ATOM	1506	CB	LYS	194	15.955	73.794	25.756	1.00	2.00
ATOM	1507	CG	LYS	194	16.352	74.089	27.197	1.00	20.96
ATOM	1508	CD	LYS	194	15.901	75.479	27.622	1.00	37.33
ATOM	1509	CE	LYS	194	14.383	75.620	27.556	1.00	40.74
ATOM	1510	NZ	LYS	194	13.933	77.015	27.831	1.00	50.22
ATOM	1511	C	LYS	194	17.952	73.458	24.298	1.00	17.25
ATOM	1512	O	LYS	194	18.890	73.150	25.054	1.00	2.00
ATOM	1513	N	TYR	195	17.839	72.988	23.062	1.00	2.00
ATOM	1514	CA	TYR	195	18.810	72.045	22.568	1.00	2.66
ATOM	1515	CB	TYR	195	18.340	71.386	21.263	1.00	10.28
ATOM	1516	CG	TYR	195	19.383	70.475	20.627	1.00	13.00
ATOM	1517	CD1	TYR	195	19.792	70.658	19.308	1.00	15.69
ATOM	1518	CE1	TYR	195	20.739	69.818	18.731	1.00	14.23
ATOM	1519	CD2	TYR	195	19.954	69.426	21.351	1.00	12.55
ATOM	1520	CE2	TYR	195	20.902	68.581	20.786	1.00	2.00
ATOM	1521	CZ	TYR	195	21.289	68.777	19.480	1.00	13.14
ATOM	1522	OH	TYR	195	22.206	67.914	18.915	1.00	30.67
ATOM	1523	C	TYR	195	20.158	72.709	22.369	1.00	5.80
ATOM	1524	O	TYR	195	20.249	73.795	21.804	1.00	20.29
ATOM	1525	N	ASP	196	21.186	72.089	22.934	1.00	7.17
ATOM	1526	CA	ASP	196	22.552	72.548	22.763	1.00	16.27
ATOM	1527	CB	ASP	196	23.113	73.183	24.048	1.00	35.43
ATOM	1528	CG	ASP	196	24.581	73.620	23.907	1.00	50.91
ATOM	1529	OD1	ASP	196	24.977	74.081	22.815	1.00	57.18
ATOM	1530	OD2	ASP	196	25.341	73.501	24.893	1.00	55.65
ATOM	1531	C	ASP	196	23.303	71.281	22.404	1.00	10.23
ATOM	1532	O	ASP	196	23.319	70.327	23.176	1.00	23.60
ATOM	1533	N	PRO	197	23.852	71.220	21.188	1.00	2.18
ATOM	1534	CD	PRO	197	23.735	72.202	20.106	1.00	2.00

ATOM	1535	CA	PRO	197	24.600	70.048	20.734	1.00	7.75
ATOM	1536	CB	PRO	197	25.024	70.438	19.308	1.00	2.00
ATOM	1537	CG	PRO	197	24.957	71.903	19.287	1.00	2.00
ATOM	1538	C	PRO	197	25.796	69.654	21.606	1.00	16.75
ATOM	1539	O	PRO	197	26.318	68.539	21.488	1.00	4.24
ATOM	1540	N	ASN	198	26.157	70.529	22.541	1.00	28.77
ATOM	1541	CA	ASN	198	27.304	70.302	23.411	1.00	27.23
ATOM	1542	CB	ASN	198	28.227	71.525	23.350	1.00	6.11
ATOM	1543	CG	ASN	198	28.593	71.905	21.925	1.00	14.45
ATOM	1544	OD1	ASN	198	29.260	71.147	21.213	1.00	21.47
ATOM	1545	ND2	ASN	198	28.126	73.066	21.488	1.00	10.32
ATOM	1546	C	ASN	198	26.980	69.936	24.861	1.00	30.95
ATOM	1547	O	ASN	198	27.796	70.134	25.762	1.00	18.36
ATOM	1548	N	VAL	199	25.807	69.359	25.083	1.00	43.68
ATOM	1549	CA	VAL	199	25.414	68.960	26.428	1.00	52.35
ATOM	1550	CB	VAL	199	24.754	70.146	27.198	1.00	27.92
ATOM	1551	CG1	VAL	199	23.672	70.775	26.368	1.00	42.00
ATOM	1552	CG2	VAL	199	24.192	69.681	28.548	1.00	37.99
ATOM	1553	C	VAL	199	24.498	67.730	26.403	1.00	51.89
ATOM	1554	O	VAL	199	23.443	67.742	25.776	1.00	24.12
ATOM	1555	N	TYR	200	24.939	66.656	27.053	1.00	45.63
ATOM	1556	CA	TYR	200	24.167	65.417	27.121	1.00	37.99
ATOM	1557	CB	TYR	200	25.089	64.195	27.002	1.00	38.27
ATOM	1558	CG	TYR	200	26.378	64.368	26.212	1.00	24.15
ATOM	1559	CD1	TYR	200	26.380	64.852	24.896	1.00	12.55
ATOM	1560	CE1	TYR	200	27.572	64.889	24.132	1.00	2.88
ATOM	1561	CD2	TYR	200	27.597	63.951	26.756	1.00	22.13
ATOM	1562	CE2	TYR	200	28.785	63.985	26.008	1.00	20.21
ATOM	1563	CZ	TYR	200	28.768	64.450	24.702	1.00	17.69
ATOM	1564	OH	TYR	200	29.938	64.409	23.974	1.00	23.83
ATOM	1565	C	TYR	200	23.396	65.336	28.455	1.00	39.32
ATOM	1566	O	TYR	200	23.684	64.488	29.306	1.00	45.38
ATOM	1567	N	SER	201	22.463	66.258	28.659	1.00	28.31
ATOM	1568	CA	SER	201	21.654	66.288	29.874	1.00	38.09
ATOM	1569	CB	SER	201	22.460	66.763	31.079	1.00	43.95
ATOM	1570	OG	SER	201	23.200	65.682	31.619	1.00	55.98
ATOM	1571	C	SER	201	20.473	67.193	29.641	1.00	42.34
ATOM	1572	O	SER	201	19.351	66.720	29.460	1.00	56.47
ATOM	1573	N	ILE	202	20.737	68.492	29.621	1.00	23.72
ATOM	1574	CA	ILE	202	19.706	69.497	29.373	1.00	17.89
ATOM	1575	CB	ILE	202	19.167	69.437	27.914	1.00	8.03
ATOM	1576	CG2	ILE	202	18.050	70.464	27.716	1.00	10.81
ATOM	1577	CG1	ILE	202	20.313	69.657	26.923	1.00	2.76
ATOM	1578	CD1	ILE	202	19.891	70.071	25.529	1.00	6.57
ATOM	1579	C	ILE	202	18.500	69.475	30.298	1.00	17.68
ATOM	1580	O	ILE	202	17.679	68.557	30.260	1.00	15.33
ATOM	1581	N	LYS	203	18.379	70.512	31.111	1.00	25.27
ATOM	1582	CA	LYS	203	17.239	70.607	31.996	1.00	27.20
ATOM	1583	CB	LYS	203	17.607	71.287	33.321	1.00	69.55
ATOM	1584	CG	LYS	203	18.682	70.570	34.144	1.00	84.17
ATOM	1585	CD	LYS	203	20.093	70.884	33.641	1.00	87.21
ATOM	1586	CE	LYS	203	21.161	70.301	34.562	1.00	82.11
ATOM	1587	NZ	LYS	203	22.540	70.694	34.150	1.00	82.58
ATOM	1588	C	LYS	203	16.190	71.423	31.243	1.00	25.57
ATOM	1589	O	LYS	203	16.495	72.432	30.601	1.00	57.33
ATOM	1590	N	TYR	204	14.971	70.914	31.240	1.00	77.92
ATOM	1591	CA	TYR	204	13.876	71.594	30.584	1.00	78.12

ATOM	1592	CB	TYR	204	13.049	70.588	29.793	1.00	26.36
ATOM	1593	CG	TYR	204	13.812	69.962	28.644	1.00	12.76
ATOM	1594	CD1	TYR	204	14.499	68.752	28.796	1.00	23.77
ATOM	1595	CE1	TYR	204	15.186	68.160	27.719	1.00	14.12
ATOM	1596	CD2	TYR	204	13.839	70.565	27.399	1.00	11.95
ATOM	1597	CE2	TYR	204	14.522	69.981	26.318	1.00	10.53
ATOM	1598	CZ	TYR	204	15.193	68.789	26.487	1.00	10.75
ATOM	1599	OH	TYR	204	15.868	68.248	25.416	1.00	17.71
ATOM	1600	C	TYR	204	13.083	72.261	31.704	1.00	84.04
ATOM	1601	O	TYR	204	12.846	71.655	32.754	1.00	31.75
ATOM	1602	N	ASN	205	12.710	73.519	31.486	1.00	49.35
ATOM	1603	CA	ASN	205	12.001	74.316	32.485	1.00	54.91
ATOM	1604	CB	ASN	205	11.906	75.762	32.011	1.00	90.20
ATOM	1605	CG	ASN	205	13.256	76.345	31.675	1.00	100.00
ATOM	1606	OD1	ASN	205	14.139	76.427	32.529	1.00	100.00
ATOM	1607	ND2	ASN	205	13.433	76.734	30.421	1.00	100.00
ATOM	1608	C	ASN	205	10.641	73.852	32.997	1.00	51.32
ATOM	1609	O	ASN	205	10.504	73.512	34.174	1.00	75.92
ATOM	1610	N	ASN	206	9.632	73.889	32.133	1.00	50.55
ATOM	1611	CA	ASN	206	8.284	73.492	32.518	1.00	51.97
ATOM	1612	CB	ASN	206	7.252	74.246	31.682	1.00	54.46
ATOM	1613	CG	ASN	206	7.351	75.744	31.848	1.00	57.23
ATOM	1614	OD1	ASN	206	6.997	76.498	30.947	1.00	55.78
ATOM	1615	ND2	ASN	206	7.835	76.186	33.005	1.00	64.62
ATOM	1616	C	ASN	206	8.023	71.992	32.436	1.00	46.84
ATOM	1617	O	ASN	206	6.872	71.568	32.336	1.00	45.82
ATOM	1618	N	GLN	207	9.085	71.195	32.530	1.00	26.96
ATOM	1619	CA	GLN	207	8.964	69.745	32.469	1.00	16.55
ATOM	1620	CB	GLN	207	10.341	69.070	32.543	1.00	15.88
ATOM	1621	CG	GLN	207	10.290	67.560	32.298	1.00	13.76
ATOM	1622	CD	GLN	207	11.595	66.848	32.592	1.00	22.20
ATOM	1623	OE1	GLN	207	11.855	66.447	33.730	1.00	23.31
ATOM	1624	NE2	GLN	207	12.412	66.660	31.560	1.00	15.90
ATOM	1625	C	GLN	207	8.098	69.216	33.600	1.00	16.46
ATOM	1626	O	GLN	207	7.979	69.845	34.649	1.00	24.18
ATOM	1627	N	LEU	208	7.483	68.062	33.348	1.00	46.74
ATOM	1628	CA	LEU	208	6.632	67.344	34.298	1.00	41.53
ATOM	1629	CB	LEU	208	5.177	67.351	33.825	1.00	10.97
ATOM	1630	CG	LEU	208	4.343	68.609	34.072	1.00	5.81
ATOM	1631	CD1	LEU	208	3.045	68.603	33.272	1.00	2.00
ATOM	1632	CD2	LEU	208	4.064	68.684	35.559	1.00	9.71
ATOM	1633	C	LEU	208	7.156	65.918	34.259	1.00	36.98
ATOM	1634	O	LEU	208	7.530	65.440	33.184	1.00	2.00
ATOM	1635	N	ALA	209	7.204	65.247	35.410	1.00	7.94
ATOM	1636	CA	ALA	209	7.708	63.868	35.455	1.00	14.89
ATOM	1637	CB	ALA	209	9.221	63.851	35.245	1.00	3.94
ATOM	1638	C	ALA	209	7.355	63.094	36.721	1.00	15.57
ATOM	1639	O	ALA	209	7.354	63.658	37.812	1.00	15.25
ATOM	1640	N	THR	210	7.062	61.799	36.564	1.00	6.12
ATOM	1641	CA	THR	210	6.725	60.918	37.688	1.00	9.02
ATOM	1642	CB	THR	210	6.064	59.609	37.207	1.00	24.19
ATOM	1643	OG1	THR	210	7.056	58.722	36.666	1.00	31.50
ATOM	1644	CG2	THR	210	5.023	59.917	36.147	1.00	12.77
ATOM	1645	C	THR	210	7.991	60.597	38.480	1.00	11.46
ATOM	1646	O	THR	210	9.054	60.396	37.898	1.00	28.01
ATOM	1647	N	ARG	211	7.867	60.520	39.802	1.00	14.26
ATOM	1648	CA	ARG	211	9.019	60.264	40.676	1.00	18.07

ATOM	1649	CB	ARG	211	8.910	61.152	41.923	1.00	68.04
ATOM	1650	CG	ARG	211	8.938	62.659	41.650	1.00	75.97
ATOM	1651	CD	ARG	211	8.284	63.445	42.784	1.00	88.60
ATOM	1652	NE	ARG	211	6.845	63.183	42.866	1.00	99.41
ATOM	1653	CZ	ARG	211	6.082	63.456	43.923	1.00	100.00
ATOM	1654	NH1	ARG	211	6.606	64.006	45.011	1.00	100.00
ATOM	1655	NH2	ARG	211	4.785	63.180	43.891	1.00	100.00
ATOM	1656	C	ARG	211	9.214	58.810	41.107	1.00	13.63
ATOM	1657	O	ARG	211	8.334	57.975	40.901	1.00	57.95
ATOM	1658	N	THR	212	10.365	58.531	41.728	1.00	2.93
ATOM	1659	CA	THR	212	10.713	57.191	42.233	1.00	9.65
ATOM	1660	CB	THR	212	12.114	57.148	42.922	1.00	35.41
ATOM	1661	OG1	THR	212	13.096	57.796	42.106	1.00	60.39
ATOM	1662	CG2	THR	212	12.550	55.700	43.166	1.00	34.04
ATOM	1663	C	THR	212	9.723	56.798	43.318	1.00	8.55
ATOM	1664	O	THR	212	9.490	57.568	44.251	1.00	26.05
ATOM	1665	N	ALA	213	9.134	55.613	43.194	1.00	43.06
ATOM	1666	CA	ALA	213	8.187	55.137	44.195	1.00	41.09
ATOM	1667	CB	ALA	213	6.964	54.543	43.531	1.00	36.17
ATOM	1668	C	ALA	213	8.887	54.100	45.069	1.00	42.38
ATOM	1669	O	ALA	213	10.078	53.816	44.873	1.00	26.58
ATOM	1670	N	GLN	214	8.151	53.528	46.021	1.00	25.97
ATOM	1671	CA	GLN	214	8.718	52.543	46.934	1.00	30.02
ATOM	1672	CB	GLN	214	7.693	52.149	48.012	1.00	20.57
ATOM	1673	CG	GLN	214	7.267	53.280	48.971	1.00	22.34
ATOM	1674	CD	GLN	214	6.023	54.053	48.504	1.00	23.82
ATOM	1675	OE1	GLN	214	5.799	54.229	47.305	1.00	28.32
ATOM	1676	NE2	GLN	214	5.213	54.515	49.458	1.00	18.72
ATOM	1677	C	GLN	214	9.256	51.307	46.191	1.00	35.87
ATOM	1678	O	GLN	214	8.970	51.109	45.001	1.00	31.56
ATOM	1679	N	ALA	215	10.067	50.506	46.886	1.00	12.64
ATOM	1680	CA	ALA	215	10.665	49.297	46.316	1.00	3.61
ATOM	1681	CB	ALA	215	11.571	48.645	47.337	1.00	53.19
ATOM	1682	C	ALA	215	9.611	48.308	45.855	1.00	2.00
ATOM	1683	O	ALA	215	9.798	47.591	44.882	1.00	39.39
ATOM	1684	N	ILE	216	8.489	48.294	46.556	1.00	20.62
ATOM	1685	CA	ILE	216	7.403	47.393	46.239	1.00	21.72
ATOM	1686	CB	ILE	216	6.284	47.502	47.300	1.00	26.15
ATOM	1687	CG2	ILE	216	5.599	48.844	47.214	1.00	27.29
ATOM	1688	CG1	ILE	216	5.311	46.326	47.167	1.00	38.97
ATOM	1689	CD1	ILE	216	5.965	44.942	47.357	1.00	50.51
ATOM	1690	C	ILE	216	6.858	47.582	44.822	1.00	20.47
ATOM	1691	O	ILE	216	6.488	46.610	44.158	1.00	35.81
ATOM	1692	N	PHE	217	6.891	48.816	44.331	1.00	15.09
ATOM	1693	CA	PHE	217	6.389	49.122	42.994	1.00	10.34
ATOM	1694	CB	PHE	217	6.040	50.598	42.893	1.00	8.36
ATOM	1695	CG	PHE	217	4.946	51.025	43.817	1.00	9.21
ATOM	1696	CD1	PHE	217	3.623	50.972	43.414	1.00	11.55
ATOM	1697	CD2	PHE	217	5.240	51.509	45.084	1.00	15.02
ATOM	1698	CE1	PHE	217	2.610	51.398	44.261	1.00	10.79
ATOM	1699	CE2	PHE	217	4.228	51.938	45.937	1.00	13.21
ATOM	1700	CZ	PHE	217	2.912	51.884	45.528	1.00	4.09
ATOM	1701	C	PHE	217	7.331	48.757	41.848	1.00	12.55
ATOM	1702	O	PHE	217	6.982	48.901	40.679	1.00	22.61
ATOM	1703	N	ASP	218	8.519	48.275	42.171	1.00	2.00
ATOM	1704	CA	ASP	218	9.468	47.912	41.135	1.00	2.00
ATOM	1705	CB	ASP	218	10.779	47.427	41.758	1.00	16.54

ATOM	1706	CG	ASP	218	11.418	48.471	42.670	1.00	28.54
ATOM	1707	OD1	ASP	218	12.371	48.113	43.395	1.00	36.14
ATOM	1708	OD2	ASP	218	10.973	49.645	42.670	1.00	33.28
ATOM	1709	C	ASP	218	8.930	46.873	40.152	1.00	2.00
ATOM	1710	O	ASP	218	8.098	46.036	40.494	1.00	17.37
ATOM	1711	N	ASP	219	9.390	46.987	38.912	1.00	11.89
ATOM	1712	CA	ASP	219	9.033	46.097	37.814	1.00	10.50
ATOM	1713	CB	ASP	219	9.468	44.675	38.144	1.00	14.71
ATOM	1714	CG	ASP	219	10.968	44.578	38.368	1.00	33.80
ATOM	1715	OD1	ASP	219	11.704	44.393	37.379	1.00	38.34
ATOM	1716	OD2	ASP	219	11.418	44.721	39.526	1.00	43.35
ATOM	1717	C	ASP	219	7.596	46.171	37.311	1.00	16.07
ATOM	1718	O	ASP	219	7.098	45.246	36.681	1.00	27.56
ATOM	1719	N	SER	220	6.969	47.323	37.513	1.00	10.25
ATOM	1720	CA	SER	220	5.597	47.553	37.070	1.00	6.07
ATOM	1721	CB	SER	220	4.957	48.649	37.922	1.00	33.20
ATOM	1722	OG	SER	220	4.949	48.278	39.287	1.00	51.71
ATOM	1723	C	SER	220	5.488	47.912	35.576	1.00	4.47
ATOM	1724	O	SER	220	4.467	47.635	34.943	1.00	30.46
ATOM	1725	N	TYR	221	6.529	48.547	35.037	1.00	2.35
ATOM	1726	CA	TYR	221	6.601	48.950	33.624	1.00	2.35
ATOM	1727	CB	TYR	221	6.313	47.768	32.678	1.00	2.00
ATOM	1728	CG	TYR	221	7.401	46.710	32.579	1.00	6.98
ATOM	1729	CD1	TYR	221	7.216	45.585	31.779	1.00	4.88
ATOM	1730	CE1	TYR	221	8.180	44.603	31.685	1.00	2.00
ATOM	1731	CD2	TYR	221	8.600	46.822	33.285	1.00	9.01
ATOM	1732	CE2	TYR	221	9.574	45.831	33.198	1.00	7.75
ATOM	1733	CZ	TYR	221	9.354	44.728	32.389	1.00	3.05
ATOM	1734	OH	TYR	221	10.315	43.752	32.252	1.00	16.40
ATOM	1735	C	TYR	221	5.772	50.158	33.170	1.00	6.96
ATOM	1736	O	TYR	221	5.462	50.274	31.974	1.00	2.00
ATOM	1737	N	LEU	222	5.423	51.055	34.098	1.00	2.00
ATOM	1738	CA	LEU	222	4.669	52.257	33.742	1.00	2.00
ATOM	1739	CB	LEU	222	4.588	53.232	34.918	1.00	8.45
ATOM	1740	CG	LEU	222	4.281	54.703	34.599	1.00	9.75
ATOM	1741	CD1	LEU	222	2.977	54.830	33.857	1.00	12.98
ATOM	1742	CD2	LEU	222	4.236	55.514	35.874	1.00	19.23
ATOM	1743	C	LEU	222	5.435	52.907	32.608	1.00	2.00
ATOM	1744	O	LEU	222	6.644	53.079	32.703	1.00	15.69
ATOM	1745	N	GLY	223	4.738	53.240	31.529	1.00	2.00
ATOM	1746	CA	GLY	223	5.393	53.837	30.382	1.00	2.00
ATOM	1747	C	GLY	223	5.425	52.853	29.233	1.00	8.53
ATOM	1748	O	GLY	223	5.919	53.177	28.158	1.00	27.70
ATOM	1749	N	TYR	224	4.910	51.645	29.472	1.00	26.60
ATOM	1750	CA	TYR	224	4.841	50.595	28.451	1.00	28.27
ATOM	1751	CB	TYR	224	4.256	49.290	29.041	1.00	11.70
ATOM	1752	CG	TYR	224	4.432	48.066	28.147	1.00	2.48
ATOM	1753	CD1	TYR	224	5.485	47.175	28.357	1.00	2.00
ATOM	1754	CE1	TYR	224	5.722	46.124	27.496	1.00	2.00
ATOM	1755	CD2	TYR	224	3.597	47.846	27.046	1.00	2.00
ATOM	1756	CE2	TYR	224	3.824	46.799	26.172	1.00	2.00
ATOM	1757	CZ	TYR	224	4.890	45.940	26.407	1.00	5.30
ATOM	1758	OH	TYR	224	5.154	44.914	25.528	1.00	10.43
ATOM	1759	C	TYR	224	3.952	51.085	27.304	1.00	29.92
ATOM	1760	O	TYR	224	4.258	50.850	26.134	1.00	15.12
ATOM	1761	N	SER	225	2.860	51.769	27.658	1.00	25.41
ATOM	1762	CA	SER	225	1.908	52.320	26.691	1.00	25.90

ATOM	1763	CB	SER	225	0.726	51.388	26.545	1.00	13.97
ATOM	1764	OG	SER	225	-0.161	51.903	25.579	1.00	24.45
ATOM	1765	C	SER	225	1.393	53.702	27.114	1.00	28.73
ATOM	1766	O	SER	225	1.248	53.976	28.307	1.00	13.01
ATOM	1767	N	VAL	226	1.074	54.554	26.137	1.00	9.20
ATOM	1768	CA	VAL	226	0.588	55.893	26.451	1.00	2.00
ATOM	1769	CB	VAL	226	1.775	56.859	26.609	1.00	2.00
ATOM	1770	CG1	VAL	226	2.069	57.623	25.328	1.00	2.00
ATOM	1771	CG2	VAL	226	1.524	57.778	27.744	1.00	15.73
ATOM	1772	C	VAL	226	-0.469	56.488	25.500	1.00	2.00
ATOM	1773	O	VAL	226	-0.395	56.345	24.275	1.00	4.42
ATOM	1774	N	ALA	227	-1.490	57.110	26.084	1.00	5.69
ATOM	1775	CA	ALA	227	-2.561	57.754	25.320	1.00	3.85
ATOM	1776	CB	ALA	227	-3.746	56.843	25.163	1.00	21.87
ATOM	1777	C	ALA	227	-2.943	59.006	26.087	1.00	7.32
ATOM	1778	O	ALA	227	-2.718	59.090	27.296	1.00	11.83
ATOM	1779	N	VAL	228	-3.555	59.965	25.407	1.00	17.21
ATOM	1780	CA	VAL	228	-3.871	61.213	26.076	1.00	20.23
ATOM	1781	CB	VAL	228	-2.755	62.234	25.736	1.00	2.15
ATOM	1782	CG1	VAL	228	-3.149	63.112	24.559	1.00	2.00
ATOM	1783	CG2	VAL	228	-2.373	63.026	26.946	1.00	19.24
ATOM	1784	C	VAL	228	-5.274	61.779	25.796	1.00	25.99
ATOM	1785	O	VAL	228	-5.721	61.813	24.644	1.00	24.53
ATOM	1786	N	GLY	229	-5.962	62.199	26.864	1.00	2.00
ATOM	1787	CA	GLY	229	-7.306	62.763	26.755	1.00	2.00
ATOM	1788	C	GLY	229	-7.671	63.614	27.968	1.00	2.00
ATOM	1789	O	GLY	229	-6.943	63.573	28.961	1.00	2.00
ATOM	1790	N	ASP	230	-8.815	64.317	27.928	1.00	9.27
ATOM	1791	CA	ASP	230	-9.242	65.202	29.028	1.00	17.32
ATOM	1792	CB	ASP	230	-10.473	66.023	28.652	1.00	44.58
ATOM	1793	CG	ASP	230	-10.581	67.322	29.467	1.00	60.46
ATOM	1794	OD1	ASP	230	-11.100	68.322	28.926	1.00	59.27
ATOM	1795	OD2	ASP	230	-10.137	67.360	30.638	1.00	52.21
ATOM	1796	C	ASP	230	-9.452	64.604	30.414	1.00	27.89
ATOM	1797	O	ASP	230	-8.558	64.684	31.250	1.00	64.01
ATOM	1798	N	PHE	231	-10.650	64.088	30.684	1.00	54.49
ATOM	1799	CA	PHE	231	-10.999	63.485	31.987	1.00	64.31
ATOM	1800	CB	PHE	231	-9.971	62.431	32.427	1.00	48.25
ATOM	1801	CG	PHE	231	-9.592	61.478	31.351	1.00	44.83
ATOM	1802	CD1	PHE	231	-10.568	60.884	30.555	1.00	42.46
ATOM	1803	CD2	PHE	231	-8.259	61.213	31.092	1.00	44.84
ATOM	1804	CE1	PHE	231	-10.218	60.038	29.511	1.00	44.52
ATOM	1805	CE2	PHE	231	-7.897	60.369	30.051	1.00	50.28
ATOM	1806	CZ	PHE	231	-8.881	59.781	29.255	1.00	50.35
ATOM	1807	C	PHE	231	-11.158	64.503	33.112	1.00	67.57
ATOM	1808	O	PHE	231	-12.253	65.020	33.354	1.00	67.77
ATOM	1809	N	ASN	232	-10.064	64.733	33.832	1.00	76.75
ATOM	1810	CA	ASN	232	-10.030	65.674	34.940	1.00	78.89
ATOM	1811	CB	ASN	232	-8.608	65.759	35.494	1.00	88.64
ATOM	1812	CG	ASN	232	-8.310	67.089	36.160	1.00	85.16
ATOM	1813	OD1	ASN	232	-8.014	68.079	35.479	1.00	72.16
ATOM	1814	ND2	ASN	232	-8.366	67.119	37.493	1.00	84.13
ATOM	1815	C	ASN	232	-10.521	67.048	34.517	1.00	80.20
ATOM	1816	O	ASN	232	-9.963	67.666	33.605	1.00	87.57
ATOM	1817	N	GLY	233	-11.579	67.497	35.192	1.00	78.98
ATOM	1818	CA	GLY	233	-12.185	68.791	34.934	1.00	84.25
ATOM	1819	C	GLY	233	-12.232	69.199	33.478	1.00	87.19

ATOM	1820	O	GLY	233	-12.696	68.458	32.605	1.00	66.02
ATOM	1821	N	ASP	234	-11.704	70.385	33.216	1.00	100.00
ATOM	1822	CA	ASP	234	-11.667	70.925	31.871	1.00	100.00
ATOM	1823	CB	ASP	234	-12.626	72.121	31.771	1.00	92.18
ATOM	1824	CG	ASP	234	-13.319	72.215	30.421	1.00	98.86
ATOM	1825	OD1	ASP	234	-14.359	71.544	30.240	1.00	98.39
ATOM	1826	OD2	ASP	234	-12.838	72.977	29.552	1.00	100.00
ATOM	1827	C	ASP	234	-10.237	71.362	31.562	1.00	90.02
ATOM	1828	O	ASP	234	-9.345	71.322	32.420	1.00	60.78
ATOM	1829	N	GLY	235	-10.016	71.761	30.321	1.00	31.01
ATOM	1830	CA	GLY	235	-8.698	72.206	29.938	1.00	38.05
ATOM	1831	C	GLY	235	-8.037	71.340	28.895	1.00	38.96
ATOM	1832	O	GLY	235	-8.554	71.160	27.780	1.00	44.81
ATOM	1833	N	ILE	236	-6.904	70.768	29.289	1.00	60.52
ATOM	1834	CA	ILE	236	-6.108	69.940	28.401	1.00	58.90
ATOM	1835	CB	ILE	236	-4.635	70.396	28.358	1.00	36.55
ATOM	1836	CG2	ILE	236	-4.264	70.817	26.928	1.00	43.21
ATOM	1837	CG1	ILE	236	-4.357	71.451	29.444	1.00	33.31
ATOM	1838	CD1	ILE	236	-4.434	70.917	30.863	1.00	12.53
ATOM	1839	C	ILE	236	-6.092	68.455	28.645	1.00	55.69
ATOM	1840	O	ILE	236	-6.719	67.934	29.571	1.00	20.87
ATOM	1841	N	ASP	237	-5.316	67.807	27.784	1.00	48.31
ATOM	1842	CA	ASP	237	-5.107	66.378	27.787	1.00	42.61
ATOM	1843	CB	ASP	237	-4.307	65.961	26.553	1.00	35.52
ATOM	1844	CG	ASP	237	-4.900	66.495	25.269	1.00	40.54
ATOM	1845	OD1	ASP	237	-4.482	67.596	24.850	1.00	51.81
ATOM	1846	OD2	ASP	237	-5.784	65.830	24.686	1.00	44.73
ATOM	1847	C	ASP	237	-4.371	65.949	29.038	1.00	32.98
ATOM	1848	O	ASP	237	-3.444	66.615	29.508	1.00	13.44
ATOM	1849	N	ASP	238	-4.838	64.845	29.594	1.00	27.54
ATOM	1850	CA	ASP	238	-4.259	64.276	30.784	1.00	19.38
ATOM	1851	CB	ASP	238	-5.356	64.017	31.808	1.00	2.67
ATOM	1852	CG	ASP	238	-5.896	65.305	32.406	1.00	16.80
ATOM	1853	OD1	ASP	238	-6.170	66.262	31.647	1.00	13.63
ATOM	1854	OD2	ASP	238	-6.020	65.370	33.643	1.00	18.98
ATOM	1855	C	ASP	238	-3.509	63.018	30.384	1.00	18.15
ATOM	1856	O	ASP	238	-3.746	62.455	29.311	1.00	6.80
ATOM	1857	N	PHE	239	-2.606	62.572	31.243	1.00	13.00
ATOM	1858	CA	PHE	239	-1.796	61.424	30.901	1.00	14.07
ATOM	1859	CB	PHE	239	-0.374	61.674	31.369	1.00	20.05
ATOM	1860	CG	PHE	239	0.119	63.024	30.974	1.00	18.46
ATOM	1861	CD1	PHE	239	0.549	63.927	31.929	1.00	6.52
ATOM	1862	CD2	PHE	239	0.018	63.436	29.648	1.00	13.43
ATOM	1863	CE1	PHE	239	0.862	65.229	31.567	1.00	14.80
ATOM	1864	CE2	PHE	239	0.326	64.721	29.268	1.00	12.21
ATOM	1865	CZ	PHE	239	0.746	65.630	30.225	1.00	14.52
ATOM	1866	C	PHE	239	-2.324	60.072	31.300	1.00	15.93
ATOM	1867	O	PHE	239	-2.737	59.851	32.440	1.00	15.34
ATOM	1868	N	VAL	240	-2.371	59.198	30.296	1.00	16.87
ATOM	1869	CA	VAL	240	-2.861	57.833	30.434	1.00	18.38
ATOM	1870	CB	VAL	240	-4.069	57.580	29.493	1.00	14.76
ATOM	1871	CG1	VAL	240	-4.617	56.172	29.692	1.00	12.72
ATOM	1872	CG2	VAL	240	-5.149	58.623	29.708	1.00	17.39
ATOM	1873	C	VAL	240	-1.743	56.893	30.025	1.00	14.17
ATOM	1874	O	VAL	240	-1.276	56.947	28.886	1.00	10.11
ATOM	1875	N	SER	241	-1.316	56.038	30.950	1.00	24.82
ATOM	1876	CA	SER	241	-0.249	55.079	30.672	1.00	28.29

ATOM	1877	CB	SER	241	1.089	55.576	31.226	1.00	25.91
ATOM	1878	OG	SER	241	2.144	54.669	30.932	1.00	30.53
ATOM	1879	C	SER	241	-0.548	53.710	31.259	1.00	21.86
ATOM	1880	O	SER	241	-0.969	53.612	32.410	1.00	14.05
ATOM	1881	N	GLY	242	-0.310	52.665	30.465	1.00	15.15
ATOM	1882	CA	GLY	242	-0.536	51.298	30.912	1.00	32.52
ATOM	1883	C	GLY	242	0.645	50.705	31.673	1.00	36.99
ATOM	1884	O	GLY	242	1.790	50.722	31.205	1.00	10.36
ATOM	1885	N	VAL	243	0.354	50.182	32.859	1.00	2.23
ATOM	1886	CA	VAL	243	1.350	49.563	33.732	1.00	2.00
ATOM	1887	CB	VAL	243	1.236	50.134	35.181	1.00	4.69
ATOM	1888	CG1	VAL	243	2.577	50.070	35.876	1.00	7.26
ATOM	1889	CG2	VAL	243	0.714	51.570	35.171	1.00	7.67
ATOM	1890	C	VAL	243	0.989	48.064	33.725	1.00	2.00
ATOM	1891	O	VAL	243	0.531	47.515	34.732	1.00	18.86
ATOM	1892	N	PRO	244	1.283	47.367	32.607	1.00	28.27
ATOM	1893	CD	PRO	244	2.283	47.814	31.618	1.00	5.33
ATOM	1894	CA	PRO	244	0.994	45.944	32.402	1.00	25.54
ATOM	1895	CB	PRO	244	1.657	45.661	31.063	1.00	2.00
ATOM	1896	CG	PRO	244	2.860	46.511	31.126	1.00	10.00
ATOM	1897	C	PRO	244	1.450	44.964	33.471	1.00	19.79
ATOM	1898	O	PRO	244	0.921	43.857	33.560	1.00	5.86
ATOM	1899	N	ARG	245	2.430	45.341	34.275	1.00	2.00
ATOM	1900	CA	ARG	245	2.886	44.425	35.293	1.00	2.00
ATOM	1901	CB	ARG	245	4.389	44.204	35.197	1.00	2.70
ATOM	1902	CG	ARG	245	4.770	43.159	34.173	1.00	12.12
ATOM	1903	CD	ARG	245	6.241	42.824	34.258	1.00	8.70
ATOM	1904	NE	ARG	245	6.616	42.467	35.615	1.00	12.93
ATOM	1905	CZ	ARG	245	6.905	41.239	36.017	1.00	5.71
ATOM	1906	NH1	ARG	245	6.866	40.231	35.169	1.00	8.29
ATOM	1907	NH2	ARG	245	7.247	41.025	37.274	1.00	12.04
ATOM	1908	C	ARG	245	2.519	44.873	36.673	1.00	2.00
ATOM	1909	O	ARG	245	2.847	44.199	37.645	1.00	21.02
ATOM	1910	N	ALA	246	1.815	45.992	36.772	1.00	9.73
ATOM	1911	CA	ALA	246	1.431	46.508	38.080	1.00	19.32
ATOM	1912	CB	ALA	246	0.557	47.743	37.937	1.00	28.11
ATOM	1913	C	ALA	246	0.727	45.447	38.921	1.00	20.30
ATOM	1914	O	ALA	246	0.372	44.360	38.430	1.00	26.07
ATOM	1915	N	ALA	247	0.530	45.769	40.194	1.00	34.69
ATOM	1916	CA	ALA	247	-0.114	44.851	41.112	1.00	34.17
ATOM	1917	CB	ALA	247	-1.525	44.569	40.656	1.00	26.60
ATOM	1918	C	ALA	247	0.718	43.571	41.138	1.00	35.65
ATOM	1919	O	ALA	247	1.941	43.623	41.319	1.00	56.94
ATOM	1920	N	ARG	248	0.070	42.429	40.941	1.00	10.69
ATOM	1921	CA	ARG	248	0.782	41.164	40.946	1.00	7.79
ATOM	1922	CB	ARG	248	0.173	40.198	41.960	1.00	38.34
ATOM	1923	CG	ARG	248	0.102	40.719	43.384	1.00	55.76
ATOM	1924	CD	ARG	248	-1.155	41.540	43.617	1.00	71.09
ATOM	1925	NE	ARG	248	-1.915	41.050	44.766	1.00	89.24
ATOM	1926	CZ	ARG	248	-2.991	40.268	44.690	1.00	96.98
ATOM	1927	NH1	ARG	248	-3.460	39.872	43.510	1.00	97.41
ATOM	1928	NH2	ARG	248	-3.595	39.865	45.804	1.00	99.44
ATOM	1929	C	ARG	248	0.661	40.617	39.540	1.00	7.54
ATOM	1930	O	ARG	248	0.050	39.578	39.313	1.00	45.14
ATOM	1931	N	THR	249	1.214	41.365	38.590	1.00	2.00
ATOM	1932	CA	THR	249	1.182	41.010	37.181	1.00	2.00
ATOM	1933	CB	THR	249	1.683	39.599	36.940	1.00	16.88

ATOM	1934	OG1	THR	249	2.696	39.292	37.902	1.00	30.48
ATOM	1935	CG2	THR	249	2.290	39.498	35.567	1.00	30.78
ATOM	1936	C	THR	249	-0.250	41.119	36.710	1.00	2.00
ATOM	1937	O	THR	249	-0.584	40.725	35.587	1.00	8.31
ATOM	1938	N	LEU	250	-1.084	41.674	37.589	1.00	14.04
ATOM	1939	CA	LEU	250	-2.500	41.897	37.332	1.00	16.91
ATOM	1940	CB	LEU	250	-3.154	42.471	38.578	1.00	6.11
ATOM	1941	CG	LEU	250	-3.729	41.467	39.560	1.00	7.25
ATOM	1942	CD1	LEU	250	-4.087	42.154	40.879	1.00	2.00
ATOM	1943	CD2	LEU	250	-4.954	40.828	38.914	1.00	14.65
ATOM	1944	C	LEU	250	-2.660	42.900	36.212	1.00	22.00
ATOM	1945	O	LEU	250	-3.350	42.645	35.218	1.00	22.58
ATOM	1946	N	GLY	251	-1.997	44.041	36.403	1.00	8.44
ATOM	1947	CA	GLY	251	-2.035	45.130	35.448	1.00	4.13
ATOM	1948	C	GLY	251	-2.713	46.329	36.077	1.00	3.89
ATOM	1949	O	GLY	251	-3.443	46.188	37.061	1.00	14.65
ATOM	1950	N	MET	252	-2.445	47.510	35.526	1.00	17.49
ATOM	1951	CA	MET	252	-3.022	48.771	36.002	1.00	8.56
ATOM	1952	CB	MET	252	-2.349	49.242	37.301	1.00	3.00
ATOM	1953	CG	MET	252	-2.916	48.691	38.599	1.00	5.57
ATOM	1954	SD	MET	252	-2.826	49.891	39.941	1.00	26.44
ATOM	1955	CE	MET	252	-1.289	49.401	40.716	1.00	21.26
ATOM	1956	C	MET	252	-2.825	49.868	34.968	1.00	8.47
ATOM	1957	O	MET	252	-1.855	49.843	34.212	1.00	7.14
ATOM	1958	N	VAL	253	-3.769	50.802	34.901	1.00	2.46
ATOM	1959	CA	VAL	253	-3.638	51.937	33.994	1.00	11.70
ATOM	1960	CB	VAL	253	-4.567	51.871	32.770	1.00	24.03
ATOM	1961	CG1	VAL	253	-4.545	53.201	32.014	1.00	25.37
ATOM	1962	CG2	VAL	253	-4.085	50.765	31.839	1.00	23.12
ATOM	1963	C	VAL	253	-3.829	53.223	34.786	1.00	21.18
ATOM	1964	O	VAL	253	-4.826	53.408	35.486	1.00	36.67
ATOM	1965	N	TYR	254	-2.816	54.079	34.711	1.00	44.14
ATOM	1966	CA	TYR	254	-2.796	55.336	35.433	1.00	42.36
ATOM	1967	CB	TYR	254	-1.378	55.594	35.939	1.00	30.13
ATOM	1968	CG	TYR	254	-0.855	54.595	36.947	1.00	26.03
ATOM	1969	CD1	TYR	254	-1.688	53.638	37.530	1.00	26.77
ATOM	1970	CE1	TYR	254	-1.207	52.767	38.500	1.00	11.62
ATOM	1971	CD2	TYR	254	0.470	54.644	37.360	1.00	14.85
ATOM	1972	CE2	TYR	254	0.955	53.778	38.329	1.00	9.02
ATOM	1973	CZ	TYR	254	0.120	52.850	38.895	1.00	10.22
ATOM	1974	OH	TYR	254	0.623	52.031	39.875	1.00	15.57
ATOM	1975	C	TYR	254	-3.231	56.532	34.608	1.00	43.86
ATOM	1976	O	TYR	254	-2.924	56.623	33.420	1.00	30.99
ATOM	1977	N	ILE	255	-3.970	57.437	35.243	1.00	33.74
ATOM	1978	CA	ILE	255	-4.386	58.669	34.592	1.00	32.30
ATOM	1979	CB	ILE	255	-5.898	58.870	34.564	1.00	5.96
ATOM	1980	CG2	ILE	255	-6.217	59.995	33.584	1.00	17.76
ATOM	1981	CG1	ILE	255	-6.614	57.597	34.098	1.00	7.92
ATOM	1982	CD1	ILE	255	-6.632	57.391	32.601	1.00	11.27
ATOM	1983	C	ILE	255	-3.758	59.778	35.426	1.00	35.72
ATOM	1984	O	ILE	255	-3.882	59.805	36.653	1.00	9.43
ATOM	1985	N	TYR	256	-3.048	60.672	34.757	1.00	21.91
ATOM	1986	CA	TYR	256	-2.374	61.759	35.441	1.00	23.28
ATOM	1987	CB	TYR	256	-0.869	61.672	35.208	1.00	33.65
ATOM	1988	CG	TYR	256	-0.192	60.540	35.933	1.00	33.52
ATOM	1989	CD1	TYR	256	0.292	59.437	35.239	1.00	36.76
ATOM	1990	CE1	TYR	256	0.957	58.415	35.901	1.00	23.79

ATOM	1991	CD2	TYR	256	0.006	60.591	37.309	1.00	30.77
ATOM	1992	CE2	TYR	256	0.667	59.581	37.975	1.00	26.84
ATOM	1993	CZ	TYR	256	1.140	58.500	37.266	1.00	20.97
ATOM	1994	OH	TYR	256	1.796	57.495	37.917	1.00	23.39
ATOM	1995	C	TYR	256	-2.848	63.124	35.003	1.00	32.00
ATOM	1996	O	TYR	256	-3.329	63.301	33.887	1.00	47.91
ATOM	1997	N	ASP	257	-2.660	64.090	35.893	1.00	30.33
ATOM	1998	CA	ASP	257	-3.031	65.474	35.645	1.00	31.78
ATOM	1999	CB	ASP	257	-2.764	66.301	36.900	1.00	39.49
ATOM	2000	CG	ASP	257	-3.378	67.681	36.840	1.00	41.16
ATOM	2001	OD1	ASP	257	-4.189	67.974	37.739	1.00	46.55
ATOM	2002	OD2	ASP	257	-3.051	68.472	35.928	1.00	39.51
ATOM	2003	C	ASP	257	-2.191	66.014	34.496	1.00	31.21
ATOM	2004	O	ASP	257	-0.961	65.899	34.506	1.00	39.68
ATOM	2005	N	GLY	258	-2.858	66.620	33.521	1.00	27.14
ATOM	2006	CA	GLY	258	-2.156	67.173	32.379	1.00	27.34
ATOM	2007	C	GLY	258	-1.186	68.294	32.726	1.00	25.55
ATOM	2008	O	GLY	258	-0.357	68.654	31.891	1.00	66.36
ATOM	2009	N	LYS	259	-1.270	68.831	33.950	1.00	21.17
ATOM	2010	CA	LYS	259	-0.396	69.924	34.398	1.00	22.64
ATOM	2011	CB	LYS	259	-1.173	71.247	34.439	1.00	62.60
ATOM	2012	CG	LYS	259	-1.465	71.829	33.047	1.00	75.10
ATOM	2013	CD	LYS	259	-0.166	72.106	32.261	1.00	80.18
ATOM	2014	CE	LYS	259	-0.417	72.523	30.802	1.00	84.00
ATOM	2015	NZ	LYS	259	-0.882	71.419	29.907	1.00	84.29
ATOM	2016	C	LYS	259	0.360	69.701	35.714	1.00	22.37
ATOM	2017	O	LYS	259	1.537	70.018	35.803	1.00	55.49
ATOM	2018	N	ASN	260	-0.321	69.208	36.746	1.00	35.96
ATOM	2019	CA	ASN	260	0.342	68.934	38.025	1.00	31.64
ATOM	2020	CB	ASN	260	-0.665	68.606	39.138	1.00	44.73
ATOM	2021	CG	ASN	260	-1.705	69.681	39.360	1.00	61.05
ATOM	2022	OD1	ASN	260	-1.760	70.683	38.646	1.00	77.93
ATOM	2023	ND2	ASN	260	-2.550	69.442	40.363	1.00	65.56
ATOM	2024	C	ASN	260	1.173	67.665	37.856	1.00	34.54
ATOM	2025	O	ASN	260	2.281	67.552	38.381	1.00	36.58
ATOM	2026	N	MET	261	0.597	66.726	37.105	1.00	29.14
ATOM	2027	CA	MET	261	1.128	65.387	36.857	1.00	25.55
ATOM	2028	CB	MET	261	2.638	65.386	36.562	1.00	30.22
ATOM	2029	CG	MET	261	3.258	63.990	36.275	1.00	35.30
ATOM	2030	SD	MET	261	2.411	62.963	35.034	1.00	35.45
ATOM	2031	CE	MET	261	3.328	63.353	33.628	1.00	14.76
ATOM	2032	C	MET	261	0.773	64.551	38.101	1.00	24.18
ATOM	2033	O	MET	261	1.443	63.570	38.436	1.00	32.12
ATOM	2034	N	SER	262	-0.285	64.982	38.792	1.00	10.60
ATOM	2035	CA	SER	262	-0.793	64.305	39.978	1.00	9.32
ATOM	2036	CB	SER	262	-1.457	65.314	40.920	1.00	51.96
ATOM	2037	OG	SER	262	-2.491	66.034	40.264	1.00	57.80
ATOM	2038	C	SER	262	-1.810	63.257	39.501	1.00	15.13
ATOM	2039	O	SER	262	-2.538	63.486	38.525	1.00	58.21
ATOM	2040	N	SER	263	-1.864	62.119	40.196	1.00	46.11
ATOM	2041	CA	SER	263	-2.768	61.031	39.817	1.00	52.98
ATOM	2042	CB	SER	263	-2.449	59.737	40.587	1.00	16.67
ATOM	2043	OG	SER	263	-2.962	58.589	39.906	1.00	34.25
ATOM	2044	C	SER	263	-4.240	61.360	39.965	1.00	51.52
ATOM	2045	O	SER	263	-4.691	61.824	41.004	1.00	24.42
ATOM	2046	N	LEU	264	-4.971	61.150	38.883	1.00	9.62
ATOM	2047	CA	LEU	264	-6.402	61.378	38.859	1.00	7.39

ATOM	2048	CB	LEU	264	-6.862	61.838	37.472	1.00	33.94
ATOM	2049	CG	LEU	264	-7.009	63.334	37.183	1.00	34.63
ATOM	2050	CD1	LEU	264	-7.617	64.029	38.398	1.00	43.62
ATOM	2051	CD2	LEU	264	-5.674	63.954	36.842	1.00	8.14
ATOM	2052	C	LEU	264	-7.072	60.055	39.162	1.00	13.80
ATOM	2053	O	LEU	264	-7.639	59.855	40.242	1.00	47.11
ATOM	2054	N	TYR	265	-6.972	59.143	38.195	1.00	63.87
ATOM	2055	CA	TYR	265	-7.589	57.833	38.309	1.00	59.63
ATOM	2056	CB	TYR	265	-8.735	57.720	37.314	1.00	44.91
ATOM	2057	CG	TYR	265	-9.620	58.949	37.279	1.00	65.73
ATOM	2058	CD1	TYR	265	-10.139	59.508	38.455	1.00	72.63
ATOM	2059	CE1	TYR	265	-10.949	60.651	38.415	1.00	76.51
ATOM	2060	CD2	TYR	265	-9.934	59.560	36.069	1.00	75.92
ATOM	2061	CE2	TYR	265	-10.742	60.696	36.015	1.00	79.53
ATOM	2062	CZ	TYR	265	-11.246	61.236	37.184	1.00	80.44
ATOM	2063	OH	TYR	265	-12.050	62.353	37.096	1.00	81.38
ATOM	2064	C	TYR	265	-6.639	56.659	38.141	1.00	56.77
ATOM	2065	O	TYR	265	-5.448	56.826	37.846	1.00	38.67
ATOM	2066	N	ASN	266	-7.204	55.468	38.320	1.00	16.32
ATOM	2067	CA	ASN	266	-6.480	54.201	38.239	1.00	13.32
ATOM	2068	CB	ASN	266	-5.979	53.794	39.633	1.00	21.01
ATOM	2069	CG	ASN	266	-4.541	54.221	39.908	1.00	30.08
ATOM	2070	OD1	ASN	266	-3.935	55.020	39.174	1.00	26.35
ATOM	2071	ND2	ASN	266	-3.997	53.673	40.988	1.00	25.71
ATOM	2072	C	ASN	266	-7.402	53.102	37.740	1.00	9.41
ATOM	2073	O	ASN	266	-8.599	53.145	37.966	1.00	17.41
ATOM	2074	N	PHE	267	-6.831	52.123	37.055	1.00	15.00
ATOM	2075	CA	PHE	267	-7.574	50.973	36.539	1.00	11.58
ATOM	2076	CB	PHE	267	-7.721	51.045	35.021	1.00	21.53
ATOM	2077	CG	PHE	267	-8.658	52.112	34.546	1.00	24.87
ATOM	2078	CD1	PHE	267	-8.287	53.450	34.582	1.00	29.43
ATOM	2079	CD2	PHE	267	-9.903	51.775	34.029	1.00	25.36
ATOM	2080	CE1	PHE	267	-9.141	54.436	34.109	1.00	32.25
ATOM	2081	CE2	PHE	267	-10.764	52.752	33.555	1.00	31.72
ATOM	2082	CZ	PHE	267	-10.385	54.084	33.593	1.00	35.44
ATOM	2083	C	PHE	267	-6.752	49.740	36.898	1.00	18.02
ATOM	2084	O	PHE	267	-5.528	49.797	36.906	1.00	29.73
ATOM	2085	N	THR	268	-7.412	48.627	37.187	1.00	31.78
ATOM	2086	CA	THR	268	-6.684	47.418	37.554	1.00	28.47
ATOM	2087	CB	THR	268	-6.739	47.189	39.083	1.00	7.55
ATOM	2088	OG1	THR	268	-6.435	48.417	39.770	1.00	8.65
ATOM	2089	CG2	THR	268	-5.743	46.107	39.497	1.00	5.50
ATOM	2090	C	THR	268	-7.222	46.193	36.821	1.00	26.70
ATOM	2091	O	THR	268	-8.405	46.135	36.486	1.00	14.82
ATOM	2092	N	GLY	269	-6.339	45.234	36.550	1.00	25.48
ATOM	2093	CA	GLY	269	-6.732	44.023	35.847	1.00	27.09
ATOM	2094	C	GLY	269	-7.429	43.008	36.735	1.00	30.57
ATOM	2095	O	GLY	269	-7.253	43.027	37.961	1.00	44.81
ATOM	2096	N	GLU	270	-8.203	42.111	36.117	1.00	22.77
ATOM	2097	CA	GLU	270	-8.946	41.081	36.848	1.00	21.09
ATOM	2098	CB	GLU	270	-10.316	40.859	36.198	1.00	51.25
ATOM	2099	CG	GLU	270	-11.488	40.932	37.180	1.00	65.75
ATOM	2100	CD	GLU	270	-11.559	42.255	37.949	1.00	74.53
ATOM	2101	OE1	GLU	270	-12.107	43.232	37.399	1.00	79.63
ATOM	2102	OE2	GLU	270	-11.086	42.316	39.107	1.00	80.47
ATOM	2103	C	GLU	270	-8.195	39.754	36.998	1.00	16.73
ATOM	2104	O	GLU	270	-8.252	39.115	38.049	1.00	46.97

ATOM	2105	N	GLN	271	-7.486	39.357	35.947	1.00	25.24
ATOM	2106	CA	GLN	271	-6.709	38.117	35.925	1.00	19.49
ATOM	2107	CB	GLN	271	-7.210	37.220	34.786	1.00	32.27
ATOM	2108	CG	GLN	271	-6.334	36.027	34.490	1.00	17.91
ATOM	2109	CD	GLN	271	-6.454	35.553	33.053	1.00	23.58
ATOM	2110	OE1	GLN	271	-7.553	35.481	32.501	1.00	23.67
ATOM	2111	NE2	GLN	271	-5.311	35.229	32.435	1.00	11.82
ATOM	2112	C	GLN	271	-5.246	38.467	35.688	1.00	12.22
ATOM	2113	O	GLN	271	-4.909	39.080	34.666	1.00	33.10
ATOM	2114	N	MET	272	-4.371	38.069	36.604	1.00	19.03
ATOM	2115	CA	MET	272	-2.951	38.384	36.440	1.00	16.32
ATOM	2116	CB	MET	272	-2.186	38.151	37.743	1.00	2.00
ATOM	2117	CG	MET	272	-2.540	36.905	38.516	1.00	2.00
ATOM	2118	SD	MET	272	-1.658	36.933	40.097	1.00	15.08
ATOM	2119	CE	MET	272	-2.672	38.053	41.039	1.00	12.65
ATOM	2120	C	MET	272	-2.217	37.761	35.239	1.00	15.19
ATOM	2121	O	MET	272	-2.666	36.769	34.663	1.00	13.14
ATOM	2122	N	ALA	273	-1.121	38.403	34.834	1.00	3.30
ATOM	2123	CA	ALA	273	-0.289	37.967	33.711	1.00	2.00
ATOM	2124	CB	ALA	273	0.210	36.545	33.934	1.00	2.00
ATOM	2125	C	ALA	273	-0.969	38.082	32.350	1.00	2.53
ATOM	2126	O	ALA	273	-0.494	37.512	31.356	1.00	5.56
ATOM	2127	N	ALA	274	-2.068	38.832	32.308	1.00	2.85
ATOM	2128	CA	ALA	274	-2.836	39.042	31.081	1.00	11.10
ATOM	2129	CB	ALA	274	-4.293	39.258	31.436	1.00	2.00
ATOM	2130	C	ALA	274	-2.322	40.238	30.266	1.00	20.68
ATOM	2131	O	ALA	274	-2.759	40.455	29.125	1.00	8.54
ATOM	2132	N	TYR	275	-1.442	41.031	30.891	1.00	18.04
ATOM	2133	CA	TYR	275	-0.838	42.233	30.308	1.00	10.55
ATOM	2134	CB	TYR	275	-0.008	41.906	29.049	1.00	10.34
ATOM	2135	CG	TYR	275	1.468	42.230	29.233	1.00	14.23
ATOM	2136	CD1	TYR	275	2.189	41.703	30.307	1.00	18.82
ATOM	2137	CE1	TYR	275	3.517	42.063	30.538	1.00	14.03
ATOM	2138	CD2	TYR	275	2.115	43.131	28.398	1.00	7.86
ATOM	2139	CE2	TYR	275	3.444	43.494	28.620	1.00	9.53
ATOM	2140	CZ	TYR	275	4.135	42.964	29.693	1.00	6.18
ATOM	2141	OH	TYR	275	5.452	43.318	29.906	1.00	20.08
ATOM	2142	C	TYR	275	-1.803	43.397	30.076	1.00	11.92
ATOM	2143	O	TYR	275	-1.750	44.098	29.064	1.00	13.36
ATOM	2144	N	PHE	276	-2.663	43.601	31.064	1.00	7.12
ATOM	2145	CA	PHE	276	-3.660	44.662	31.072	1.00	5.89
ATOM	2146	CB	PHE	276	-4.493	44.514	32.353	1.00	25.95
ATOM	2147	CG	PHE	276	-5.493	45.621	32.599	1.00	24.86
ATOM	2148	CD1	PHE	276	-6.762	45.581	32.018	1.00	32.17
ATOM	2149	CD2	PHE	276	-5.205	46.652	33.491	1.00	30.41
ATOM	2150	CE1	PHE	276	-7.729	46.551	32.332	1.00	23.85
ATOM	2151	CE2	PHE	276	-6.162	47.621	33.807	1.00	29.68
ATOM	2152	CZ	PHE	276	-7.424	47.567	33.228	1.00	32.92
ATOM	2153	C	PHE	276	-2.914	46.000	31.054	1.00	5.34
ATOM	2154	O	PHE	276	-2.479	46.492	32.101	1.00	29.35
ATOM	2155	N	GLY	277	-2.715	46.555	29.860	1.00	2.00
ATOM	2156	CA	GLY	277	-2.016	47.824	29.747	1.00	2.00
ATOM	2157	C	GLY	277	-1.107	47.874	28.534	1.00	7.39
ATOM	2158	O	GLY	277	-0.576	48.934	28.205	1.00	46.14
ATOM	2159	N	PHE	278	-0.928	46.728	27.876	1.00	13.95
ATOM	2160	CA	PHE	278	-0.089	46.610	26.682	1.00	2.00
ATOM	2161	CB	PHE	278	-0.288	45.219	26.050	1.00	2.00

ATOM	2162	CG	PHE	278	0.472	45.003	24.770	1.00	2.00
ATOM	2163	CD1	PHE	278	1.775	44.519	24.793	1.00	2.00
ATOM	2164	CD2	PHE	278	-0.115	45.287	23.536	1.00	2.00
ATOM	2165	CE1	PHE	278	2.488	44.315	23.607	1.00	2.00
ATOM	2166	CE2	PHE	278	0.586	45.090	22.341	1.00	2.00
ATOM	2167	CZ	PHE	278	1.888	44.604	22.376	1.00	2.00
ATOM	2168	C	PHE	278	-0.423	47.721	25.679	1.00	2.00
ATOM	2169	O	PHE	278	0.458	48.226	24.977	1.00	17.13
ATOM	2170	N	SER	279	-1.699	48.088	25.609	1.00	7.33
ATOM	2171	CA	SER	279	-2.150	49.149	24.715	1.00	17.38
ATOM	2172	CB	SER	279	-2.677	48.581	23.394	1.00	6.61
ATOM	2173	OG	SER	279	-3.922	47.932	23.578	1.00	16.71
ATOM	2174	C	SER	279	-3.269	49.909	25.413	1.00	15.91
ATOM	2175	O	SER	279	-4.043	49.327	26.171	1.00	7.44
ATOM	2176	N	VAL	280	-3.309	51.221	25.203	1.00	23.40
ATOM	2177	CA	VAL	280	-4.347	52.062	25.786	1.00	14.74
ATOM	2178	CB	VAL	280	-3.852	52.840	27.004	1.00	2.00
ATOM	2179	CG1	VAL	280	-3.221	51.895	28.002	1.00	12.58
ATOM	2180	CG2	VAL	280	-2.869	53.889	26.590	1.00	8.22
ATOM	2181	C	VAL	280	-4.777	53.021	24.694	1.00	21.27
ATOM	2182	O	VAL	280	-4.072	53.187	23.698	1.00	2.93
ATOM	2183	N	ALA	281	-5.943	53.628	24.878	1.00	9.55
ATOM	2184	CA	ALA	281	-6.501	54.544	23.897	1.00	13.59
ATOM	2185	CB	ALA	281	-6.945	53.770	22.644	1.00	2.00
ATOM	2186	C	ALA	281	-7.689	55.282	24.494	1.00	17.02
ATOM	2187	O	ALA	281	-8.557	54.674	25.122	1.00	11.33
ATOM	2188	N	ALA	282	-7.713	56.596	24.292	1.00	36.26
ATOM	2189	CA	ALA	282	-8.789	57.450	24.780	1.00	32.87
ATOM	2190	CB	ALA	282	-8.254	58.480	25.738	1.00	5.42
ATOM	2191	C	ALA	282	-9.448	58.139	23.599	1.00	35.56
ATOM	2192	O	ALA	282	-8.768	58.775	22.791	1.00	3.61
ATOM	2193	N	THR	283	-10.773	58.006	23.514	1.00	5.73
ATOM	2194	CA	THR	283	-11.571	58.597	22.439	1.00	14.59
ATOM	2195	CB	THR	283	-11.620	57.659	21.225	1.00	5.54
ATOM	2196	OG1	THR	283	-10.288	57.276	20.869	1.00	28.77
ATOM	2197	CG2	THR	283	-12.267	58.335	20.047	1.00	4.06
ATOM	2198	C	THR	283	-12.998	58.767	22.933	1.00	22.19
ATOM	2199	O	THR	283	-13.393	58.133	23.912	1.00	21.06
ATOM	2200	N	ASP	284	-13.746	59.673	22.311	1.00	22.98
ATOM	2201	CA	ASP	284	-15.146	59.857	22.681	1.00	24.93
ATOM	2202	CB	ASP	284	-15.587	61.311	22.617	1.00	31.75
ATOM	2203	CG	ASP	284	-17.062	61.465	22.891	1.00	30.03
ATOM	2204	OD1	ASP	284	-17.788	61.869	21.961	1.00	41.00
ATOM	2205	OD2	ASP	284	-17.490	61.146	24.021	1.00	18.04
ATOM	2206	C	ASP	284	-15.909	59.039	21.667	1.00	27.00
ATOM	2207	O	ASP	284	-16.193	59.474	20.549	1.00	40.74
ATOM	2208	N	ILE	285	-16.238	57.838	22.097	1.00	55.62
ATOM	2209	CA	ILE	285	-16.909	56.871	21.268	1.00	54.53
ATOM	2210	CB	ILE	285	-16.456	55.476	21.737	1.00	13.46
ATOM	2211	CG2	ILE	285	-17.168	55.088	23.006	1.00	10.75
ATOM	2212	CG1	ILE	285	-16.551	54.469	20.598	1.00	5.21
ATOM	2213	CD1	ILE	285	-15.518	54.712	19.498	1.00	7.72
ATOM	2214	C	ILE	285	-18.442	57.005	21.208	1.00	57.65
ATOM	2215	O	ILE	285	-19.109	56.243	20.499	1.00	33.82
ATOM	2216	N	ASN	286	-18.977	58.043	21.854	1.00	55.29
ATOM	2217	CA	ASN	286	-20.423	58.266	21.896	1.00	51.66
ATOM	2218	CB	ASN	286	-21.001	57.544	23.109	1.00	34.06

ATOM	2219	CG	ASN	286	-20.457	58.089	24.415	1.00	34.39
ATOM	2220	OD1	ASN	286	-21.134	58.074	25.440	1.00	45.21
ATOM	2221	ND2	ASN	286	-19.231	58.601	24.376	1.00	30.83
ATOM	2222	C	ASN	286	-20.894	59.736	21.917	1.00	58.23
ATOM	2223	O	ASN	286	-21.727	60.112	22.750	1.00	46.93
ATOM	2224	N	GLY	287	-20.361	60.550	21.007	1.00	25.62
ATOM	2225	CA	GLY	287	-20.742	61.956	20.888	1.00	15.14
ATOM	2226	C	GLY	287	-21.396	62.759	22.013	1.00	20.47
ATOM	2227	O	GLY	287	-22.481	63.323	21.836	1.00	46.58
ATOM	2228	N	ASP	288	-20.729	62.830	23.160	1.00	26.38
ATOM	2229	CA	ASP	288	-21.204	63.600	24.317	1.00	31.70
ATOM	2230	CB	ASP	288	-21.792	62.666	25.385	1.00	38.69
ATOM	2231	CG	ASP	288	-20.775	61.673	25.924	1.00	39.18
ATOM	2232	OD1	ASP	288	-20.707	61.490	27.157	1.00	26.42
ATOM	2233	OD2	ASP	288	-20.044	61.073	25.115	1.00	45.02
ATOM	2234	C	ASP	288	-19.968	64.304	24.860	1.00	35.49
ATOM	2235	O	ASP	288	-19.937	64.787	25.989	1.00	44.13
ATOM	2236	N	ASP	289	-18.966	64.354	23.991	1.00	44.21
ATOM	2237	CA	ASP	289	-17.648	64.911	24.234	1.00	51.13
ATOM	2238	CB	ASP	289	-17.533	66.372	23.822	1.00	91.29
ATOM	2239	CG	ASP	289	-16.275	66.625	23.011	1.00	100.00
ATOM	2240	OD1	ASP	289	-16.360	66.630	21.764	1.00	100.00
ATOM	2241	OD2	ASP	289	-15.190	66.756	23.617	1.00	100.00
ATOM	2242	C	ASP	289	-17.022	64.644	25.587	1.00	48.25
ATOM	2243	O	ASP	289	-16.906	65.516	26.447	1.00	81.91
ATOM	2244	N	TYR	290	-16.609	63.395	25.734	1.00	53.14
ATOM	2245	CA	TYR	290	-15.957	62.898	26.920	1.00	50.05
ATOM	2246	CB	TYR	290	-16.983	62.361	27.907	1.00	76.08
ATOM	2247	CG	TYR	290	-17.651	63.428	28.733	1.00	75.99
ATOM	2248	CD1	TYR	290	-19.029	63.621	28.679	1.00	81.06
ATOM	2249	CE1	TYR	290	-19.652	64.569	29.481	1.00	79.36
ATOM	2250	CD2	TYR	290	-16.910	64.217	29.606	1.00	75.99
ATOM	2251	CE2	TYR	290	-17.521	65.169	30.412	1.00	79.13
ATOM	2252	CZ	TYR	290	-18.890	65.338	30.348	1.00	80.25
ATOM	2253	OH	TYR	290	-19.489	66.260	31.172	1.00	81.00
ATOM	2254	C	TYR	290	-15.046	61.777	26.455	1.00	51.34
ATOM	2255	O	TYR	290	-15.486	60.828	25.799	1.00	79.20
ATOM	2256	N	ALA	291	-13.759	61.927	26.733	1.00	45.13
ATOM	2257	CA	ALA	291	-12.796	60.918	26.352	1.00	40.73
ATOM	2258	CB	ALA	291	-11.386	61.396	26.647	1.00	61.70
ATOM	2259	C	ALA	291	-13.107	59.647	27.132	1.00	37.12
ATOM	2260	O	ALA	291	-13.305	59.683	28.349	1.00	39.51
ATOM	2261	N	ASP	292	-13.219	58.542	26.401	1.00	32.32
ATOM	2262	CA	ASP	292	-13.502	57.237	26.979	1.00	23.71
ATOM	2263	CB	ASP	292	-14.597	56.544	26.181	1.00	13.48
ATOM	2264	CG	ASP	292	-15.843	57.386	26.089	1.00	19.86
ATOM	2265	OD1	ASP	292	-16.148	57.893	24.982	1.00	6.19
ATOM	2266	OD2	ASP	292	-16.484	57.581	27.148	1.00	26.46
ATOM	2267	C	ASP	292	-12.231	56.429	26.933	1.00	19.20
ATOM	2268	O	ASP	292	-11.480	56.517	25.966	1.00	16.08
ATOM	2269	N	VAL	293	-11.986	55.654	27.985	1.00	12.11
ATOM	2270	CA	VAL	293	-10.780	54.840	28.063	1.00	8.68
ATOM	2271	CB	VAL	293	-10.271	54.721	29.497	1.00	8.58
ATOM	2272	CG1	VAL	293	-8.888	54.116	29.503	1.00	14.42
ATOM	2273	CG2	VAL	293	-10.274	56.064	30.163	1.00	11.18
ATOM	2274	C	VAL	293	-10.943	53.424	27.538	1.00	9.70
ATOM	2275	O	VAL	293	-11.911	52.737	27.853	1.00	21.47

ATOM	2276	N	PHE	294	-9.971	52.992	26.744	1.00	40.67
ATOM	2277	CA	PHE	294	-9.958	51.647	26.197	1.00	42.29
ATOM	2278	CB	PHE	294	-10.052	51.674	24.682	1.00	19.64
ATOM	2279	CG	PHE	294	-11.347	52.220	24.171	1.00	27.70
ATOM	2280	CD1	PHE	294	-11.724	53.529	24.446	1.00	31.10
ATOM	2281	CD2	PHE	294	-12.172	51.438	23.366	1.00	30.90
ATOM	2282	CE1	PHE	294	-12.900	54.060	23.927	1.00	33.22
ATOM	2283	CE2	PHE	294	-13.355	51.958	22.837	1.00	33.38
ATOM	2284	CZ	PHE	294	-13.718	53.278	23.119	1.00	23.16
ATOM	2285	C	PHE	294	-8.641	51.045	26.638	1.00	48.29
ATOM	2286	O	PHE	294	-7.595	51.693	26.564	1.00	38.51
ATOM	2287	N	ILE	295	-8.700	49.823	27.152	1.00	17.63
ATOM	2288	CA	ILE	295	-7.498	49.159	27.642	1.00	11.35
ATOM	2289	CB	ILE	295	-7.427	49.254	29.182	1.00	15.95
ATOM	2290	CG2	ILE	295	-6.041	48.848	29.667	1.00	18.48
ATOM	2291	CG1	ILE	295	-7.725	50.694	29.621	1.00	9.88
ATOM	2292	CD1	ILE	295	-7.916	50.874	31.097	1.00	2.00
ATOM	2293	C	ILE	295	-7.415	47.708	27.176	1.00	15.42
ATOM	2294	O	ILE	295	-8.368	46.955	27.305	1.00	28.51
ATOM	2295	N	GLY	296	-6.275	47.335	26.611	1.00	2.08
ATOM	2296	CA	GLY	296	-6.101	45.990	26.111	1.00	2.63
ATOM	2297	C	GLY	296	-5.228	45.075	26.948	1.00	7.97
ATOM	2298	O	GLY	296	-4.172	45.470	27.451	1.00	25.66
ATOM	2299	N	ALA	297	-5.708	43.845	27.113	1.00	41.61
ATOM	2300	CA	ALA	297	-5.014	42.788	27.844	1.00	32.75
ATOM	2301	CB	ALA	297	-5.740	42.477	29.141	1.00	2.00
ATOM	2302	C	ALA	297	-5.111	41.617	26.870	1.00	27.39
ATOM	2303	O	ALA	297	-5.891	40.696	27.056	1.00	17.69
ATOM	2304	N	PRO	298	-4.299	41.649	25.807	1.00	15.42
ATOM	2305	CD	PRO	298	-3.128	42.539	25.712	1.00	9.39
ATOM	2306	CA	PRO	298	-4.242	40.644	24.749	1.00	14.89
ATOM	2307	CB	PRO	298	-3.021	41.099	23.934	1.00	2.00
ATOM	2308	CG	PRO	298	-2.151	41.704	24.938	1.00	2.00
ATOM	2309	C	PRO	298	-4.144	39.176	25.185	1.00	14.68
ATOM	2310	O	PRO	298	-4.495	38.266	24.424	1.00	19.03
ATOM	2311	N	LEU	299	-3.699	38.953	26.417	1.00	3.03
ATOM	2312	CA	LEU	299	-3.532	37.603	26.955	1.00	3.85
ATOM	2313	CB	LEU	299	-2.122	37.471	27.547	1.00	7.48
ATOM	2314	CG	LEU	299	-0.935	37.127	26.639	1.00	2.00
ATOM	2315	CD1	LEU	299	-0.945	37.938	25.372	1.00	2.06
ATOM	2316	CD2	LEU	299	0.362	37.309	27.421	1.00	14.24
ATOM	2317	C	LEU	299	-4.590	37.143	27.986	1.00	5.72
ATOM	2318	O	LEU	299	-4.358	36.208	28.758	1.00	19.42
ATOM	2319	N	PHE	300	-5.752	37.786	27.986	1.00	14.10
ATOM	2320	CA	PHE	300	-6.820	37.430	28.912	1.00	10.63
ATOM	2321	CB	PHE	300	-7.940	38.475	28.867	1.00	2.00
ATOM	2322	CG	PHE	300	-9.009	38.285	29.918	1.00	2.00
ATOM	2323	CD1	PHE	300	-8.775	38.646	31.247	1.00	2.00
ATOM	2324	CD2	PHE	300	-10.282	37.823	29.563	1.00	2.00
ATOM	2325	CE1	PHE	300	-9.796	38.550	32.225	1.00	2.00
ATOM	2326	CE2	PHE	300	-11.300	37.720	30.518	1.00	4.34
ATOM	2327	CZ	PHE	300	-11.055	38.096	31.862	1.00	2.00
ATOM	2328	C	PHE	300	-7.374	36.070	28.539	1.00	15.28
ATOM	2329	O	PHE	300	-7.586	35.764	27.355	1.00	5.84
ATOM	2330	N	MET	301	-7.567	35.256	29.574	1.00	35.60
ATOM	2331	CA	MET	301	-8.104	33.914	29.446	1.00	37.02
ATOM	2332	CB	MET	301	-7.257	32.922	30.242	1.00	10.66

ATOM	2333	CG	MET	301	-5.861	32.774	29.713	1.00	2.00
ATOM	2334	SD	MET	301	-5.065	31.209	30.130	1.00	16.27
ATOM	2335	CE	MET	301	-4.982	31.289	31.987	1.00	2.00
ATOM	2336	C	MET	301	-9.546	33.893	29.944	1.00	40.98
ATOM	2337	O	MET	301	-9.807	33.977	31.147	1.00	16.95
ATOM	2338	N	ASP	302	-10.489	33.845	29.014	1.00	51.17
ATOM	2339	CA	ASP	302	-11.888	33.805	29.395	1.00	59.53
ATOM	2340	CB	ASP	302	-12.764	34.589	28.396	1.00	36.82
ATOM	2341	CG	ASP	302	-12.930	33.888	27.037	1.00	43.52
ATOM	2342	OD1	ASP	302	-12.109	33.017	26.678	1.00	50.51
ATOM	2343	OD2	ASP	302	-13.893	34.230	26.314	1.00	40.59
ATOM	2344	C	ASP	302	-12.325	32.356	29.475	1.00	59.12
ATOM	2345	O	ASP	302	-11.619	31.459	29.001	1.00	27.11
ATOM	2346	N	ARG	303	-13.460	32.135	30.128	1.00	38.69
ATOM	2347	CA	ARG	303	-14.027	30.802	30.256	1.00	41.04
ATOM	2348	CB	ARG	303	-14.927	30.735	31.483	1.00	40.93
ATOM	2349	CG	ARG	303	-14.191	30.837	32.805	1.00	31.21
ATOM	2350	CD	ARG	303	-13.368	29.603	33.054	1.00	31.79
ATOM	2351	NE	ARG	303	-12.797	29.606	34.395	1.00	47.04
ATOM	2352	CZ	ARG	303	-12.175	28.568	34.949	1.00	58.93
ATOM	2353	NH1	ARG	303	-12.037	27.430	34.276	1.00	62.85
ATOM	2354	NH2	ARG	303	-11.684	28.669	36.179	1.00	64.78
ATOM	2355	C	ARG	303	-14.844	30.607	28.988	1.00	46.92
ATOM	2356	O	ARG	303	-15.728	31.408	28.685	1.00	49.90
ATOM	2357	N	GLY	304	-14.519	29.567	28.231	1.00	9.12
ATOM	2358	CA	GLY	304	-15.219	29.324	26.986	1.00	18.64
ATOM	2359	C	GLY	304	-16.083	28.084	26.933	1.00	18.77
ATOM	2360	O	GLY	304	-15.568	26.966	26.938	1.00	82.83
ATOM	2361	N	SER	305	-17.396	28.305	26.850	1.00	47.44
ATOM	2362	CA	SER	305	-18.426	27.263	26.768	1.00	47.49
ATOM	2363	CB	SER	305	-18.576	26.779	25.324	1.00	38.92
ATOM	2364	OG	SER	305	-19.633	25.847	25.213	1.00	46.08
ATOM	2365	C	SER	305	-18.263	26.070	27.714	1.00	50.16
ATOM	2366	O	SER	305	-18.987	25.948	28.703	1.00	38.93
ATOM	2367	N	ASP	306	-17.338	25.175	27.381	1.00	68.39
ATOM	2368	CA	ASP	306	-17.067	23.993	28.187	1.00	67.47
ATOM	2369	CB	ASP	306	-16.135	23.042	27.429	1.00	81.28
ATOM	2370	CG	ASP	306	-15.030	23.772	26.695	1.00	95.59
ATOM	2371	OD1	ASP	306	-15.161	23.962	25.469	1.00	100.00
ATOM	2372	OD2	ASP	306	-14.041	24.174	27.341	1.00	100.00
ATOM	2373	C	ASP	306	-16.490	24.329	29.562	1.00	63.71
ATOM	2374	O	ASP	306	-16.233	23.428	30.359	1.00	70.31
ATOM	2375	N	GLY	307	-16.288	25.619	29.833	1.00	48.06
ATOM	2376	CA	GLY	307	-15.756	26.048	31.122	1.00	42.76
ATOM	2377	C	GLY	307	-14.239	26.155	31.272	1.00	40.13
ATOM	2378	O	GLY	307	-13.739	26.639	32.297	1.00	2.00
ATOM	2379	N	LYS	308	-13.502	25.687	30.267	1.00	33.95
ATOM	2380	CA	LYS	308	-12.048	25.743	30.299	1.00	36.31
ATOM	2381	CB	LYS	308	-11.440	24.755	29.281	1.00	50.22
ATOM	2382	CG	LYS	308	-11.376	23.294	29.739	1.00	73.81
ATOM	2383	CD	LYS	308	-10.780	22.361	28.663	1.00	82.39
ATOM	2384	CE	LYS	308	-10.816	20.879	29.108	1.00	82.39
ATOM	2385	NZ	LYS	308	-10.585	19.879	28.011	1.00	81.26
ATOM	2386	C	LYS	308	-11.529	27.149	30.014	1.00	32.21
ATOM	2387	O	LYS	308	-12.139	27.919	29.268	1.00	43.06
ATOM	2388	N	LEU	309	-10.402	27.473	30.641	1.00	29.03
ATOM	2389	CA	LEU	309	-9.739	28.755	30.453	1.00	22.66

ATOM	2390	CB	LEU	309	-8.614	28.924	31.471	1.00	2.00
ATOM	2391	CG	LEU	309	-8.988	29.353	32.878	1.00	2.00
ATOM	2392	CD1	LEU	309	-7.754	29.427	33.725	1.00	2.00
ATOM	2393	CD2	LEU	309	-9.686	30.701	32.832	1.00	2.00
ATOM	2394	C	LEU	309	-9.112	28.767	29.071	1.00	27.17
ATOM	2395	O	LEU	309	-8.505	27.771	28.653	1.00	12.07
ATOM	2396	N	GLN	310	-9.259	29.882	28.360	1.00	25.22
ATOM	2397	CA	GLN	310	-8.662	30.010	27.034	1.00	28.39
ATOM	2398	CB	GLN	310	-9.616	29.549	25.937	1.00	37.84
ATOM	2399	CG	GLN	310	-10.983	30.173	25.960	1.00	36.35
ATOM	2400	CD	GLN	310	-11.883	29.557	24.920	1.00	37.07
ATOM	2401	OE1	GLN	310	-11.710	28.396	24.542	1.00	42.80
ATOM	2402	NE2	GLN	310	-12.844	30.328	24.443	1.00	18.63
ATOM	2403	C	GLN	310	-8.163	31.411	26.762	1.00	37.46
ATOM	2404	O	GLN	310	-8.899	32.384	26.911	1.00	52.01
ATOM	2405	N	GLU	311	-6.882	31.500	26.413	1.00	26.93
ATOM	2406	CA	GLU	311	-6.234	32.772	26.126	1.00	23.60
ATOM	2407	CB	GLU	311	-4.714	32.567	26.026	1.00	16.63
ATOM	2408	CG	GLU	311	-3.891	33.844	25.888	1.00	21.90
ATOM	2409	CD	GLU	311	-2.846	33.762	24.770	1.00	31.06
ATOM	2410	OE1	GLU	311	-3.134	34.194	23.625	1.00	39.64
ATOM	2411	OE2	GLU	311	-1.731	33.269	25.037	1.00	24.65
ATOM	2412	C	GLU	311	-6.801	33.275	24.812	1.00	20.14
ATOM	2413	O	GLU	311	-6.623	32.638	23.788	1.00	14.15
ATOM	2414	N	VAL	312	-7.555	34.370	24.864	1.00	15.95
ATOM	2415	CA	VAL	312	-8.150	34.955	23.659	1.00	10.02
ATOM	2416	CB	VAL	312	-9.644	34.545	23.460	1.00	12.35
ATOM	2417	CG1	VAL	312	-9.763	33.046	23.402	1.00	10.32
ATOM	2418	CG2	VAL	312	-10.541	35.110	24.565	1.00	2.44
ATOM	2419	C	VAL	312	-8.052	36.468	23.650	1.00	8.80
ATOM	2420	O	VAL	312	-8.131	37.091	22.589	1.00	18.55
ATOM	2421	N	GLY	313	-7.920	37.051	24.840	1.00	27.60
ATOM	2422	CA	GLY	313	-7.801	38.491	24.950	1.00	27.27
ATOM	2423	C	GLY	313	-9.088	39.199	25.301	1.00	26.19
ATOM	2424	O	GLY	313	-10.170	38.684	25.041	1.00	23.70
ATOM	2425	N	GLN	314	-8.958	40.429	25.796	1.00	17.59
ATOM	2426	CA	GLN	314	-10.102	41.237	26.217	1.00	16.06
ATOM	2427	CB	GLN	314	-10.509	40.790	27.631	1.00	17.84
ATOM	2428	CG	GLN	314	-11.585	41.624	28.310	1.00	24.55
ATOM	2429	CD	GLN	314	-11.651	41.373	29.804	1.00	37.31
ATOM	2430	OE1	GLN	314	-10.751	41.750	30.563	1.00	45.22
ATOM	2431	NE2	GLN	314	-12.723	40.739	30.237	1.00	24.59
ATOM	2432	C	GLN	314	-9.789	42.742	26.233	1.00	20.95
ATOM	2433	O	GLN	314	-8.666	43.147	26.543	1.00	19.56
ATOM	2434	N	VAL	315	-10.782	43.560	25.882	1.00	8.91
ATOM	2435	CA	VAL	315	-10.637	45.023	25.903	1.00	4.84
ATOM	2436	CB	VAL	315	-10.830	45.683	24.515	1.00	2.00
ATOM	2437	CG1	VAL	315	-10.888	47.195	24.662	1.00	2.00
ATOM	2438	CG2	VAL	315	-9.693	45.318	23.615	1.00	2.00
ATOM	2439	C	VAL	315	-11.586	45.695	26.903	1.00	12.08
ATOM	2440	O	VAL	315	-12.807	45.622	26.795	1.00	11.92
ATOM	2441	N	SER	316	-10.998	46.328	27.898	1.00	7.48
ATOM	2442	CA	SER	316	-11.743	47.035	28.913	1.00	8.46
ATOM	2443	CB	SER	316	-10.835	47.208	30.135	1.00	17.26
ATOM	2444	OG	SER	316	-11.444	47.968	31.156	1.00	17.52
ATOM	2445	C	SER	316	-12.183	48.395	28.325	1.00	15.18
ATOM	2446	O	SER	316	-11.346	49.218	27.937	1.00	32.10

ATOM	2447	N	VAL	317	-13.498	48.599	28.218	1.00	24.98
ATOM	2448	CA	VAL	317	-14.062	49.842	27.679	1.00	12.88
ATOM	2449	CB	VAL	317	-15.087	49.571	26.583	1.00	5.23
ATOM	2450	CG1	VAL	317	-15.522	50.880	25.954	1.00	9.04
ATOM	2451	CG2	VAL	317	-14.514	48.648	25.546	1.00	7.30
ATOM	2452	C	VAL	317	-14.744	50.731	28.723	1.00	16.89
ATOM	2453	O	VAL	317	-15.965	50.686	28.911	1.00	15.99
ATOM	2454	N	SER	318	-13.955	51.590	29.349	1.00	12.87
ATOM	2455	CA	SER	318	-14.467	52.494	30.363	1.00	22.13
ATOM	2456	CB	SER	318	-13.337	52.852	31.326	1.00	8.04
ATOM	2457	OG	SER	318	-12.465	51.744	31.514	1.00	16.31
ATOM	2458	C	SER	318	-15.067	53.762	29.748	1.00	29.85
ATOM	2459	O	SER	318	-14.374	54.539	29.091	1.00	29.51
ATOM	2460	N	LEU	319	-16.373	53.933	29.917	1.00	34.62
ATOM	2461	CA	LEU	319	-17.069	55.109	29.404	1.00	35.33
ATOM	2462	CB	LEU	319	-18.506	54.766	29.022	1.00	34.11
ATOM	2463	CG	LEU	319	-18.660	53.826	27.830	1.00	32.48
ATOM	2464	CD1	LEU	319	-20.078	53.293	27.754	1.00	36.25
ATOM	2465	CD2	LEU	319	-18.280	54.548	26.559	1.00	13.56
ATOM	2466	C	LEU	319	-17.075	56.126	30.523	1.00	36.60
ATOM	2467	O	LEU	319	-17.431	55.799	31.658	1.00	39.31
ATOM	2468	N	GLN	320	-16.679	57.354	30.206	1.00	49.59
ATOM	2469	CA	GLN	320	-16.616	58.410	31.207	1.00	45.48
ATOM	2470	CB	GLN	320	-15.553	59.442	30.837	1.00	50.66
ATOM	2471	CG	GLN	320	-15.308	60.458	31.943	1.00	51.35
ATOM	2472	CD	GLN	320	-14.355	61.569	31.548	1.00	54.10
ATOM	2473	OE1	GLN	320	-13.958	61.695	30.386	1.00	41.96
ATOM	2474	NE2	GLN	320	-13.987	62.393	32.525	1.00	46.32
ATOM	2475	C	GLN	320	-17.932	59.124	31.487	1.00	44.19
ATOM	2476	O	GLN	320	-18.533	59.734	30.593	1.00	49.37
ATOM	2477	N	ARG	321	-18.358	59.051	32.748	1.00	60.48
ATOM	2478	CA	ARG	321	-19.581	59.700	33.212	1.00	67.71
ATOM	2479	CB	ARG	321	-19.981	59.156	34.593	1.00	76.52
ATOM	2480	CG	ARG	321	-21.280	58.354	34.660	1.00	92.45
ATOM	2481	CD	ARG	321	-21.133	56.945	34.095	1.00	98.93
ATOM	2482	NE	ARG	321	-21.026	56.930	32.636	1.00	99.04
ATOM	2483	CZ	ARG	321	-22.038	57.161	31.801	1.00	99.04
ATOM	2484	NH1	ARG	321	-23.249	57.428	32.275	1.00	99.04
ATOM	2485	NH2	ARG	321	-21.840	57.129	30.490	1.00	99.04
ATOM	2486	C	ARG	321	-19.268	61.189	33.333	1.00	74.57
ATOM	2487	O	ARG	321	-18.144	61.619	33.070	1.00	77.22
ATOM	2488	N	ALA	322	-20.261	61.975	33.731	1.00	96.79
ATOM	2489	CA	ALA	322	-20.063	63.411	33.901	1.00	93.99
ATOM	2490	CB	ALA	322	-21.378	64.148	33.704	1.00	82.94
ATOM	2491	C	ALA	322	-19.487	63.702	35.289	1.00	96.27
ATOM	2492	O	ALA	322	-18.821	64.717	35.499	1.00	92.33
ATOM	2493	N	SER	323	-19.738	62.785	36.222	1.00	78.72
ATOM	2494	CA	SER	323	-19.270	62.892	37.605	1.00	76.98
ATOM	2495	CB	SER	323	-20.107	61.978	38.498	1.00	65.56
ATOM	2496	OG	SER	323	-19.979	60.624	38.091	1.00	54.53
ATOM	2497	C	SER	323	-17.798	62.522	37.777	1.00	79.84
ATOM	2498	O	SER	323	-17.227	62.715	38.853	1.00	69.09
ATOM	2499	N	GLY	324	-17.194	61.987	36.718	1.00	100.00
ATOM	2500	CA	GLY	324	-15.804	61.573	36.775	1.00	100.00
ATOM	2501	C	GLY	324	-15.722	60.083	37.045	1.00	100.00
ATOM	2502	O	GLY	324	-14.636	59.526	37.204	1.00	100.00
ATOM	2503	N	ASP	325	-16.886	59.443	37.133	1.00	99.99

ATOM	2504	CA	ASP	325	-16.969	58.009	37.372	1.00	96.99
ATOM	2505	CB	ASP	325	-18.212	57.675	38.210	1.00	81.88
ATOM	2506	CG	ASP	325	-18.171	58.303	39.608	1.00	83.79
ATOM	2507	OD1	ASP	325	-19.244	58.438	40.233	1.00	83.79
ATOM	2508	OD2	ASP	325	-17.070	58.658	40.090	1.00	83.79
ATOM	2509	C	ASP	325	-17.007	57.288	36.029	1.00	89.42
ATOM	2510	O	ASP	325	-17.052	57.924	34.974	1.00	68.67
ATOM	2511	N	PHE	326	-16.970	55.964	36.065	1.00	28.83
ATOM	2512	CA	PHE	326	-16.981	55.189	34.833	1.00	19.00
ATOM	2513	CB	PHE	326	-15.609	54.585	34.570	1.00	62.37
ATOM	2514	CG	PHE	326	-14.583	55.580	34.137	1.00	63.60
ATOM	2515	CD1	PHE	326	-13.633	56.049	35.034	1.00	61.06
ATOM	2516	CD2	PHE	326	-14.539	56.018	32.823	1.00	62.45
ATOM	2517	CE1	PHE	326	-12.652	56.940	34.623	1.00	61.65
ATOM	2518	CE2	PHE	326	-13.564	56.907	32.403	1.00	51.43
ATOM	2519	CZ	PHE	326	-12.617	57.369	33.302	1.00	53.37
ATOM	2520	C	PHE	326	-18.015	54.081	34.761	1.00	20.53
ATOM	2521	O	PHE	326	-18.392	53.472	35.766	1.00	62.59
ATOM	2522	N	GLN	327	-18.452	53.820	33.539	1.00	47.92
ATOM	2523	CA	GLN	327	-19.425	52.785	33.260	1.00	50.13
ATOM	2524	CB	GLN	327	-20.615	53.400	32.518	1.00	84.42
ATOM	2525	CG	GLN	327	-21.876	52.555	32.508	1.00	94.19
ATOM	2526	CD	GLN	327	-22.041	51.754	31.230	1.00	97.86
ATOM	2527	OE1	GLN	327	-21.346	51.988	30.239	1.00	100.00
ATOM	2528	NE2	GLN	327	-22.975	50.809	31.244	1.00	94.89
ATOM	2529	C	GLN	327	-18.624	51.847	32.375	1.00	43.54
ATOM	2530	O	GLN	327	-18.789	51.802	31.155	1.00	58.32
ATOM	2531	N	THR	328	-17.686	51.159	33.010	1.00	51.31
ATOM	2532	CA	THR	328	-16.804	50.245	32.307	1.00	45.61
ATOM	2533	CB	THR	328	-15.527	49.964	33.110	1.00	23.72
ATOM	2534	OG1	THR	328	-15.063	51.167	33.748	1.00	22.46
ATOM	2535	CG2	THR	328	-14.456	49.400	32.187	1.00	26.53
ATOM	2536	C	THR	328	-17.444	48.905	32.002	1.00	41.62
ATOM	2537	O	THR	328	-17.919	48.212	32.904	1.00	24.20
ATOM	2538	N	THR	329	-17.417	48.544	30.724	1.00	20.44
ATOM	2539	CA	THR	329	-17.952	47.275	30.234	1.00	19.27
ATOM	2540	CB	THR	329	-18.916	47.509	29.052	1.00	25.78
ATOM	2541	OG1	THR	329	-18.171	47.857	27.880	1.00	34.16
ATOM	2542	CG2	THR	329	-19.865	48.649	29.366	1.00	25.40
ATOM	2543	C	THR	329	-16.756	46.400	29.787	1.00	19.63
ATOM	2544	O	THR	329	-15.603	46.762	30.026	1.00	30.68
ATOM	2545	N	LYS	330	-17.019	45.248	29.173	1.00	21.75
ATOM	2546	CA	LYS	330	-15.941	44.368	28.712	1.00	16.26
ATOM	2547	CB	LYS	330	-15.682	43.258	29.720	1.00	7.23
ATOM	2548	CG	LYS	330	-14.429	43.452	30.578	1.00	9.10
ATOM	2549	CD	LYS	330	-14.673	44.268	31.847	1.00	7.62
ATOM	2550	CE	LYS	330	-13.495	44.121	32.817	1.00	22.49
ATOM	2551	NZ	LYS	330	-13.653	44.870	34.107	1.00	24.58
ATOM	2552	C	LYS	330	-16.189	43.770	27.324	1.00	16.91
ATOM	2553	O	LYS	330	-17.344	43.595	26.905	1.00	9.63
ATOM	2554	N	LEU	331	-15.102	43.430	26.628	1.00	7.35
ATOM	2555	CA	LEU	331	-15.194	42.885	25.267	1.00	5.02
ATOM	2556	CB	LEU	331	-15.157	44.031	24.249	1.00	7.74
ATOM	2557	CG	LEU	331	-14.964	43.725	22.767	1.00	16.03
ATOM	2558	CD1	LEU	331	-15.937	42.650	22.287	1.00	23.86
ATOM	2559	CD2	LEU	331	-15.150	45.018	22.010	1.00	11.14
ATOM	2560	C	LEU	331	-14.102	41.879	24.957	1.00	7.84

ATOM	2561	O	LEU	331	-12.943	42.235	24.730	1.00	28.20
ATOM	2562	N	ASN	332	-14.495	40.616	24.895	1.00	12.95
ATOM	2563	CA	ASN	332	-13.542	39.553	24.633	1.00	17.38
ATOM	2564	CB	ASN	332	-13.992	38.250	25.293	1.00	13.61
ATOM	2565	CG	ASN	332	-13.944	38.316	26.803	1.00	20.75
ATOM	2566	OD1	ASN	332	-14.860	38.827	27.441	1.00	39.95
ATOM	2567	ND2	ASN	332	-12.868	37.798	27.387	1.00	24.03
ATOM	2568	C	ASN	332	-13.281	39.314	23.165	1.00	19.08
ATOM	2569	O	ASN	332	-14.070	39.690	22.294	1.00	20.60
ATOM	2570	N	GLY	333	-12.144	38.686	22.908	1.00	9.38
ATOM	2571	CA	GLY	333	-11.769	38.367	21.555	1.00	11.43
ATOM	2572	C	GLY	333	-12.364	37.055	21.089	1.00	16.05
ATOM	2573	O	GLY	333	-12.997	36.314	21.841	1.00	52.11
ATOM	2574	N	PHE	334	-12.174	36.799	19.806	1.00	29.02
ATOM	2575	CA	PHE	334	-12.644	35.600	19.138	1.00	28.36
ATOM	2576	CB	PHE	334	-13.443	36.004	17.895	1.00	39.21
ATOM	2577	CG	PHE	334	-14.144	37.341	18.039	1.00	38.63
ATOM	2578	CD1	PHE	334	-13.478	38.528	17.746	1.00	44.92
ATOM	2579	CD2	PHE	334	-15.438	37.419	18.536	1.00	42.89
ATOM	2580	CE1	PHE	334	-14.089	39.768	17.956	1.00	45.97
ATOM	2581	CE2	PHE	334	-16.055	38.660	18.749	1.00	44.87
ATOM	2582	CZ	PHE	334	-15.379	39.832	18.459	1.00	39.18
ATOM	2583	C	PHE	334	-11.321	34.945	18.771	1.00	28.57
ATOM	2584	O	PHE	334	-10.298	35.631	18.676	1.00	44.70
ATOM	2585	N	GLU	335	-11.327	33.629	18.590	1.00	30.35
ATOM	2586	CA	GLU	335	-10.110	32.867	18.280	1.00	29.53
ATOM	2587	CB	GLU	335	-9.397	33.395	17.054	1.00	17.62
ATOM	2588	CG	GLU	335	-10.213	33.430	15.816	1.00	24.63
ATOM	2589	CD	GLU	335	-9.457	34.125	14.733	1.00	31.69
ATOM	2590	OE1	GLU	335	-9.084	35.307	14.958	1.00	35.02
ATOM	2591	OE2	GLU	335	-9.205	33.485	13.686	1.00	34.10
ATOM	2592	C	GLU	335	-9.126	32.902	19.436	1.00	28.70
ATOM	2593	O	GLU	335	-8.896	33.951	20.051	1.00	36.72
ATOM	2594	N	VAL	336	-8.535	31.745	19.705	1.00	19.82
ATOM	2595	CA	VAL	336	-7.574	31.592	20.787	1.00	14.82
ATOM	2596	CB	VAL	336	-7.698	30.202	21.455	1.00	18.00
ATOM	2597	CG1	VAL	336	-6.636	30.012	22.510	1.00	31.90
ATOM	2598	CG2	VAL	336	-9.072	30.052	22.085	1.00	27.67
ATOM	2599	C	VAL	336	-6.184	31.781	20.226	1.00	14.62
ATOM	2600	O	VAL	336	-5.905	31.367	19.104	1.00	27.65
ATOM	2601	N	PHE	337	-5.349	32.481	20.986	1.00	15.53
ATOM	2602	CA	PHE	337	-3.979	32.757	20.600	1.00	18.18
ATOM	2603	CB	PHE	337	-3.313	31.473	20.092	1.00	15.19
ATOM	2604	CG	PHE	337	-3.019	30.490	21.192	1.00	6.76
ATOM	2605	CD1	PHE	337	-3.401	30.768	22.501	1.00	5.95
ATOM	2606	CD2	PHE	337	-2.300	29.345	20.945	1.00	16.26
ATOM	2607	CE1	PHE	337	-3.064	29.937	23.539	1.00	15.98
ATOM	2608	CE2	PHE	337	-1.961	28.504	21.985	1.00	26.77
ATOM	2609	CZ	PHE	337	-2.345	28.805	23.286	1.00	21.86
ATOM	2610	C	PHE	337	-3.747	33.981	19.700	1.00	20.29
ATOM	2611	O	PHE	337	-2.617	34.477	19.604	1.00	25.82
ATOM	2612	N	ALA	338	-4.804	34.441	19.024	1.00	23.22
ATOM	2613	CA	ALA	338	-4.755	35.660	18.212	1.00	21.02
ATOM	2614	CB	ALA	338	-5.993	35.767	17.365	1.00	23.33
ATOM	2615	C	ALA	338	-4.815	36.650	19.367	1.00	26.48
ATOM	2616	O	ALA	338	-5.530	36.379	20.344	1.00	53.82
ATOM	2617	N	ARG	339	-4.139	37.796	19.288	1.00	27.39

ATOM	2618	CA	ARG	339	-4.139	38.656	20.481	1.00	31.61
ATOM	2619	CB	ARG	339	-2.699	39.039	20.822	1.00	35.51
ATOM	2620	CG	ARG	339	-1.910	37.801	21.270	1.00	26.30
ATOM	2621	CD	ARG	339	-0.430	38.042	21.532	1.00	14.32
ATOM	2622	NE	ARG	339	0.220	36.863	22.123	1.00	15.61
ATOM	2623	CZ	ARG	339	1.540	36.661	22.212	1.00	5.33
ATOM	2624	NH1	ARG	339	2.413	37.545	21.746	1.00	7.48
ATOM	2625	NH2	ARG	339	2.000	35.573	22.813	1.00	7.63
ATOM	2626	C	ARG	339	-5.192	39.734	20.870	1.00	28.05
ATOM	2627	O	ARG	339	-5.287	40.119	22.037	1.00	23.52
ATOM	2628	N	PHE	340	-6.046	40.135	19.939	1.00	46.86
ATOM	2629	CA	PHE	340	-7.116	41.107	20.216	1.00	44.59
ATOM	2630	CB	PHE	340	-8.213	40.458	21.065	1.00	11.70
ATOM	2631	CG	PHE	340	-9.521	41.201	21.012	1.00	5.72
ATOM	2632	CD1	PHE	340	-10.202	41.340	19.805	1.00	4.51
ATOM	2633	CD2	PHE	340	-10.060	41.787	22.155	1.00	12.36
ATOM	2634	CE1	PHE	340	-11.388	42.054	19.746	1.00	3.64
ATOM	2635	CE2	PHE	340	-11.252	42.505	22.100	1.00	17.45
ATOM	2636	CZ	PHE	340	-11.914	42.637	20.898	1.00	2.39
ATOM	2637	C	PHE	340	-6.799	42.515	20.777	1.00	47.73
ATOM	2638	O	PHE	340	-6.680	43.476	20.017	1.00	33.21
ATOM	2639	N	GLY	341	-6.765	42.663	22.100	1.00	23.39
ATOM	2640	CA	GLY	341	-6.477	43.972	22.672	1.00	32.30
ATOM	2641	C	GLY	341	-5.060	44.467	22.409	1.00	34.68
ATOM	2642	O	GLY	341	-4.637	45.482	22.966	1.00	71.10
ATOM	2643	N	SER	342	-4.340	43.758	21.538	1.00	16.08
ATOM	2644	CA	SER	342	-2.955	44.058	21.177	1.00	11.69
ATOM	2645	CB	SER	342	-2.464	43.005	20.182	1.00	12.28
ATOM	2646	OG	SER	342	-1.382	42.271	20.725	1.00	22.83
ATOM	2647	C	SER	342	-2.698	45.447	20.589	1.00	4.88
ATOM	2648	O	SER	342	-1.590	45.979	20.652	1.00	14.96
ATOM	2649	N	ALA	343	-3.738	46.028	20.020	1.00	8.76
ATOM	2650	CA	ALA	343	-3.619	47.309	19.380	1.00	3.69
ATOM	2651	CB	ALA	343	-2.908	47.126	18.041	1.00	2.00
ATOM	2652	C	ALA	343	-4.999	47.917	19.161	1.00	8.80
ATOM	2653	O	ALA	343	-5.756	47.477	18.296	1.00	14.47
ATOM	2654	N	ILE	344	-5.338	48.897	19.985	1.00	2.46
ATOM	2655	CA	ILE	344	-6.603	49.600	19.858	1.00	7.28
ATOM	2656	CB	ILE	344	-7.156	49.955	21.227	1.00	2.00
ATOM	2657	CG2	ILE	344	-8.538	50.544	21.098	1.00	2.00
ATOM	2658	CG1	ILE	344	-7.163	48.714	22.111	1.00	2.00
ATOM	2659	CD1	ILE	344	-7.345	49.019	23.581	1.00	9.80
ATOM	2660	C	ILE	344	-6.260	50.894	19.131	1.00	15.77
ATOM	2661	O	ILE	344	-5.497	51.714	19.653	1.00	18.97
ATOM	2662	N	ALA	345	-6.768	51.051	17.910	1.00	14.78
ATOM	2663	CA	ALA	345	-6.508	52.257	17.120	1.00	10.37
ATOM	2664	CB	ALA	345	-5.729	51.914	15.872	1.00	21.31
ATOM	2665	C	ALA	345	-7.800	52.978	16.755	1.00	14.88
ATOM	2666	O	ALA	345	-8.416	52.691	15.722	1.00	43.74
ATOM	2667	N	PRO	346	-8.210	53.954	17.588	1.00	9.77
ATOM	2668	CD	PRO	346	-7.486	54.454	18.767	1.00	8.26
ATOM	2669	CA	PRO	346	-9.432	54.732	17.375	1.00	14.68
ATOM	2670	CB	PRO	346	-9.432	55.697	18.554	1.00	2.00
ATOM	2671	CG	PRO	346	-8.013	55.841	18.883	1.00	2.00
ATOM	2672	C	PRO	346	-9.452	55.458	16.050	1.00	16.84
ATOM	2673	O	PRO	346	-8.486	56.114	15.682	1.00	15.48
ATOM	2674	N	LEU	347	-10.543	55.281	15.317	1.00	33.17

ATOM	2675	CA	LEU	347	-10.716	55.915	14.021	1.00	33.60
ATOM	2676	CB	LEU	347	-11.430	54.967	13.086	1.00	23.43
ATOM	2677	CG	LEU	347	-10.868	53.562	13.184	1.00	24.00
ATOM	2678	CD1	LEU	347	-12.031	52.578	13.231	1.00	3.31
ATOM	2679	CD2	LEU	347	-9.925	53.305	12.020	1.00	21.03
ATOM	2680	C	LEU	347	-11.556	57.163	14.186	1.00	32.69
ATOM	2681	O	LEU	347	-12.177	57.375	15.232	1.00	26.50
ATOM	2682	N	GLY	348	-11.586	57.985	13.148	1.00	15.21
ATOM	2683	CA	GLY	348	-12.364	59.199	13.228	1.00	28.54
ATOM	2684	C	GLY	348	-13.837	58.881	13.358	1.00	34.41
ATOM	2685	O	GLY	348	-14.376	58.770	14.457	1.00	10.07
ATOM	2686	N	ASP	349	-14.481	58.729	12.211	1.00	34.81
ATOM	2687	CA	ASP	349	-15.895	58.420	12.134	1.00	24.39
ATOM	2688	CB	ASP	349	-16.734	59.698	12.284	1.00	20.20
ATOM	2689	CG	ASP	349	-18.219	59.416	12.493	1.00	25.19
ATOM	2690	OD1	ASP	349	-18.657	58.271	12.269	1.00	33.95
ATOM	2691	OD2	ASP	349	-18.957	60.345	12.881	1.00	27.80
ATOM	2692	C	ASP	349	-16.046	57.822	10.750	1.00	22.76
ATOM	2693	O	ASP	349	-16.623	58.433	9.862	1.00	27.40
ATOM	2694	N	LEU	350	-15.433	56.656	10.573	1.00	2.00
ATOM	2695	CA	LEU	350	-15.435	55.920	9.317	1.00	8.96
ATOM	2696	CB	LEU	350	-15.403	54.422	9.603	1.00	38.35
ATOM	2697	CG	LEU	350	-14.077	53.687	9.503	1.00	37.22
ATOM	2698	CD1	LEU	350	-14.332	52.214	9.715	1.00	33.96
ATOM	2699	CD2	LEU	350	-13.458	53.925	8.139	1.00	45.63
ATOM	2700	C	LEU	350	-16.633	56.212	8.432	1.00	16.23
ATOM	2701	O	LEU	350	-16.491	56.720	7.319	1.00	33.03
ATOM	2702	N	ASP	351	-17.806	55.850	8.943	1.00	61.08
ATOM	2703	CA	ASP	351	-19.087	56.028	8.270	1.00	62.63
ATOM	2704	CB	ASP	351	-20.146	55.153	8.953	1.00	39.27
ATOM	2705	CG	ASP	351	-20.267	55.423	10.458	1.00	37.39
ATOM	2706	OD1	ASP	351	-21.270	54.982	11.056	1.00	37.30
ATOM	2707	OD2	ASP	351	-19.367	56.056	11.052	1.00	28.16
ATOM	2708	C	ASP	351	-19.538	57.479	8.304	1.00	64.88
ATOM	2709	O	ASP	351	-20.254	57.946	7.422	1.00	47.05
ATOM	2710	N	GLN	352	-19.117	58.182	9.344	1.00	26.59
ATOM	2711	CA	GLN	352	-19.466	59.578	9.533	1.00	21.99
ATOM	2712	CB	GLN	352	-19.026	60.423	8.338	1.00	67.26
ATOM	2713	CG	GLN	352	-18.407	61.749	8.745	1.00	68.41
ATOM	2714	CD	GLN	352	-17.197	62.099	7.908	1.00	66.08
ATOM	2715	OE1	GLN	352	-17.204	63.083	7.169	1.00	65.66
ATOM	2716	NE2	GLN	352	-16.148	61.291	8.016	1.00	71.56
ATOM	2717	C	GLN	352	-20.954	59.689	9.780	1.00	18.66
ATOM	2718	O	GLN	352	-21.744	59.863	8.854	1.00	61.07
ATOM	2719	N	ASP	353	-21.320	59.546	11.048	1.00	35.34
ATOM	2720	CA	ASP	353	-22.707	59.613	11.473	1.00	38.25
ATOM	2721	CB	ASP	353	-23.290	58.197	11.587	1.00	65.72
ATOM	2722	CG	ASP	353	-22.601	57.359	12.654	1.00	76.11
ATOM	2723	OD1	ASP	353	-23.305	56.619	13.365	1.00	82.50
ATOM	2724	OD2	ASP	353	-21.362	57.433	12.788	1.00	75.62
ATOM	2725	C	ASP	353	-22.819	60.342	12.813	1.00	38.03
ATOM	2726	O	ASP	353	-23.843	60.241	13.496	1.00	64.27
ATOM	2727	N	GLY	354	-21.762	61.070	13.183	1.00	43.91
ATOM	2728	CA	GLY	354	-21.756	61.812	14.437	1.00	40.43
ATOM	2729	C	GLY	354	-21.276	61.023	15.645	1.00	38.03
ATOM	2730	O	GLY	354	-21.441	61.452	16.790	1.00	61.04
ATOM	2731	N	PHE	355	-20.676	59.867	15.384	1.00	56.53

ATOM	2732	CA	PHE	355	-20.158	58.997	16.430	1.00	50.85
ATOM	2733	CB	PHE	355	-21.148	57.865	16.708	1.00	38.27
ATOM	2734	CG	PHE	355	-22.405	58.317	17.402	1.00	32.16
ATOM	2735	CD1	PHE	355	-22.385	58.673	18.751	1.00	26.44
ATOM	2736	CD2	PHE	355	-23.611	58.404	16.709	1.00	33.59
ATOM	2737	CE1	PHE	355	-23.548	59.108	19.398	1.00	30.23
ATOM	2738	CE2	PHE	355	-24.779	58.839	17.352	1.00	39.73
ATOM	2739	CZ	PHE	355	-24.743	59.191	18.695	1.00	37.46
ATOM	2740	C	PHE	355	-18.814	58.428	15.993	1.00	50.72
ATOM	2741	O	PHE	355	-18.634	58.052	14.840	1.00	42.45
ATOM	2742	N	ASN	356	-17.858	58.381	16.910	1.00	70.04
ATOM	2743	CA	ASN	356	-16.544	57.856	16.572	1.00	69.94
ATOM	2744	CB	ASN	356	-15.473	58.407	17.517	1.00	31.54
ATOM	2745	CG	ASN	356	-15.236	59.890	17.323	1.00	27.49
ATOM	2746	OD1	ASN	356	-15.261	60.399	16.197	1.00	37.23
ATOM	2747	ND2	ASN	356	-15.014	60.595	18.424	1.00	18.97
ATOM	2748	C	ASN	356	-16.504	56.338	16.560	1.00	66.61
ATOM	2749	O	ASN	356	-17.293	55.672	17.232	1.00	36.66
ATOM	2750	N	ASP	357	-15.571	55.811	15.776	1.00	25.67
ATOM	2751	CA	ASP	357	-15.365	54.378	15.623	1.00	31.01
ATOM	2752	CB	ASP	357	-15.291	54.037	14.133	1.00	75.16
ATOM	2753	CG	ASP	357	-16.459	54.613	13.341	1.00	85.06
ATOM	2754	OD1	ASP	357	-16.671	55.840	13.378	1.00	92.18
ATOM	2755	OD2	ASP	357	-17.171	53.837	12.678	1.00	84.12
ATOM	2756	C	ASP	357	-14.066	53.979	16.330	1.00	24.09
ATOM	2757	O	ASP	357	-13.484	54.780	17.065	1.00	58.75
ATOM	2758	N	ILE	358	-13.616	52.749	16.103	1.00	24.89
ATOM	2759	CA	ILE	358	-12.388	52.250	16.722	1.00	26.34
ATOM	2760	CB	ILE	358	-12.520	52.206	18.265	1.00	18.02
ATOM	2761	CG2	ILE	358	-13.384	51.027	18.723	1.00	31.00
ATOM	2762	CG1	ILE	358	-11.138	52.148	18.894	1.00	23.27
ATOM	2763	CD1	ILE	358	-11.061	52.905	20.190	1.00	13.46
ATOM	2764	C	ILE	358	-12.005	50.872	16.161	1.00	22.84
ATOM	2765	O	ILE	358	-12.869	50.051	15.846	1.00	5.34
ATOM	2766	N	ALA	359	-10.714	50.615	16.009	1.00	20.88
ATOM	2767	CA	ALA	359	-10.323	49.336	15.452	1.00	17.23
ATOM	2768	CB	ALA	359	-9.805	49.514	14.059	1.00	2.00
ATOM	2769	C	ALA	359	-9.348	48.539	16.295	1.00	18.43
ATOM	2770	O	ALA	359	-8.149	48.816	16.319	1.00	10.86
ATOM	2771	N	ILE	360	-9.901	47.537	16.979	1.00	17.25
ATOM	2772	CA	ILE	360	-9.171	46.619	17.844	1.00	6.88
ATOM	2773	CB	ILE	360	-10.136	45.953	18.786	1.00	2.00
ATOM	2774	CG2	ILE	360	-9.418	45.029	19.701	1.00	2.00
ATOM	2775	CG1	ILE	360	-10.904	47.045	19.519	1.00	2.00
ATOM	2776	CD1	ILE	360	-11.282	46.723	20.914	1.00	2.00
ATOM	2777	C	ILE	360	-8.477	45.603	16.959	1.00	10.92
ATOM	2778	O	ILE	360	-8.984	45.270	15.885	1.00	2.00
ATOM	2779	N	ALA	361	-7.323	45.104	17.392	1.00	2.00
ATOM	2780	CA	ALA	361	-6.587	44.177	16.545	1.00	2.00
ATOM	2781	CB	ALA	361	-5.469	44.906	15.848	1.00	13.79
ATOM	2782	C	ALA	361	-6.040	42.907	17.134	1.00	2.00
ATOM	2783	O	ALA	361	-5.332	42.929	18.135	1.00	24.37
ATOM	2784	N	ALA	362	-6.312	41.808	16.429	1.00	22.02
ATOM	2785	CA	ALA	362	-5.826	40.471	16.771	1.00	13.14
ATOM	2786	CB	ALA	362	-6.961	39.488	16.758	1.00	11.45
ATOM	2787	C	ALA	362	-4.818	40.141	15.661	1.00	16.72
ATOM	2788	O	ALA	362	-5.201	39.642	14.594	1.00	5.83

ATOM	2789	N	PRO	363	-3.523	40.478	15.887	1.00	21.08
ATOM	2790	CD	PRO	363	-3.094	41.055	17.176	1.00	2.00
ATOM	2791	CA	PRO	363	-2.351	40.301	15.016	1.00	15.54
ATOM	2792	CB	PRO	363	-1.206	40.836	15.879	1.00	2.00
ATOM	2793	CG	PRO	363	-1.865	41.803	16.796	1.00	2.00
ATOM	2794	C	PRO	363	-2.053	38.877	14.592	1.00	21.96
ATOM	2795	O	PRO	363	-1.378	38.639	13.591	1.00	10.72
ATOM	2796	N	TYR	364	-2.573	37.929	15.350	1.00	16.53
ATOM	2797	CA	TYR	364	-2.319	36.538	15.060	1.00	19.84
ATOM	2798	CB	TYR	364	-1.535	35.991	16.226	1.00	8.44
ATOM	2799	CG	TYR	364	-0.353	36.876	16.558	1.00	8.51
ATOM	2800	CD1	TYR	364	-0.310	37.605	17.751	1.00	14.49
ATOM	2801	CE1	TYR	364	0.818	38.375	18.097	1.00	19.36
ATOM	2802	CD2	TYR	364	0.754	36.943	15.708	1.00	3.27
ATOM	2803	CE2	TYR	364	1.883	37.706	16.044	1.00	16.55
ATOM	2804	CZ	TYR	364	1.909	38.414	17.243	1.00	19.62
ATOM	2805	OH	TYR	364	3.033	39.134	17.589	1.00	29.87
ATOM	2806	C	TYR	364	-3.564	35.694	14.748	1.00	21.00
ATOM	2807	O	TYR	364	-3.543	34.468	14.872	1.00	13.61
ATOM	2808	N	GLY	365	-4.622	36.360	14.282	1.00	18.02
ATOM	2809	CA	GLY	365	-5.867	35.690	13.959	1.00	19.06
ATOM	2810	C	GLY	365	-5.877	35.105	12.568	1.00	21.57
ATOM	2811	O	GLY	365	-4.823	34.746	12.052	1.00	18.72
ATOM	2812	N	GLY	366	-7.070	34.983	11.982	1.00	38.09
ATOM	2813	CA	GLY	366	-7.214	34.429	10.642	1.00	50.73
ATOM	2814	C	GLY	366	-6.575	33.062	10.453	1.00	56.59
ATOM	2815	O	GLY	366	-6.310	32.354	11.426	1.00	90.20
ATOM	2816	N	GLU	367	-6.350	32.678	9.199	1.00	69.88
ATOM	2817	CA	GLU	367	-5.722	31.395	8.887	1.00	71.81
ATOM	2818	CB	GLU	367	-6.243	30.827	7.560	1.00	90.61
ATOM	2819	CG	GLU	367	-5.825	31.605	6.313	1.00	94.96
ATOM	2820	CD	GLU	367	-6.453	32.992	6.229	1.00	99.76
ATOM	2821	OE1	GLU	367	-7.459	33.141	5.500	1.00	99.76
ATOM	2822	OE2	GLU	367	-5.942	33.932	6.881	1.00	99.76
ATOM	2823	C	GLU	367	-4.215	31.599	8.809	1.00	70.12
ATOM	2824	O	GLU	367	-3.748	32.611	8.287	1.00	81.27
ATOM	2825	N	ASP	368	-3.465	30.644	9.351	1.00	98.62
ATOM	2826	CA	ASP	368	-2.006	30.705	9.364	1.00	99.29
ATOM	2827	CB	ASP	368	-1.450	30.623	7.933	1.00	100.00
ATOM	2828	CG	ASP	368	-1.799	29.317	7.239	1.00	100.00
ATOM	2829	OD1	ASP	368	-1.139	28.295	7.533	1.00	100.00
ATOM	2830	OD2	ASP	368	-2.725	29.317	6.396	1.00	100.00
ATOM	2831	C	ASP	368	-1.510	31.981	10.053	1.00	92.68
ATOM	2832	O	ASP	368	-0.587	32.643	9.569	1.00	100.00
ATOM	2833	N	LYS	369	-2.147	32.326	11.170	1.00	35.89
ATOM	2834	CA	LYS	369	-1.799	33.514	11.950	1.00	31.22
ATOM	2835	CB	LYS	369	-0.701	33.189	12.972	1.00	74.70
ATOM	2836	CG	LYS	369	-1.166	32.266	14.100	1.00	91.76
ATOM	2837	CD	LYS	369	-0.183	32.255	15.271	1.00	99.75
ATOM	2838	CE	LYS	369	-0.772	31.552	16.494	1.00	99.88
ATOM	2839	NZ	LYS	369	0.076	31.714	17.711	1.00	100.00
ATOM	2840	C	LYS	369	-1.443	34.777	11.140	1.00	28.68
ATOM	2841	O	LYS	369	-0.448	35.456	11.425	1.00	65.60
ATOM	2842	N	LYS	370	-2.274	35.080	10.138	1.00	31.69
ATOM	2843	CA	LYS	370	-2.117	36.259	9.279	1.00	23.55
ATOM	2844	CB	LYS	370	-2.744	36.011	7.905	1.00	10.19
ATOM	2845	CG	LYS	370	-2.090	34.981	7.003	1.00	7.40

ATOM	2846	CD	LYS	370	-2.951	34.843	5.732	1.00	18.02
ATOM	2847	CE	LYS	370	-2.371	33.896	4.681	1.00	20.71
ATOM	2848	NZ	LYS	370	-3.232	33.787	3.447	1.00	23.37
ATOM	2849	C	LYS	370	-2.802	37.498	9.896	1.00	27.85
ATOM	2850	O	LYS	370	-2.862	38.566	9.273	1.00	23.19
ATOM	2851	N	GLY	371	-3.399	37.312	11.071	1.00	23.05
ATOM	2852	CA	GLY	371	-4.071	38.391	11.782	1.00	17.50
ATOM	2853	C	GLY	371	-5.233	39.113	11.124	1.00	12.21
ATOM	2854	O	GLY	371	-5.282	39.266	9.900	1.00	12.79
ATOM	2855	N	ILE	372	-6.186	39.542	11.943	1.00	6.01
ATOM	2856	CA	ILE	372	-7.328	40.285	11.428	1.00	5.89
ATOM	2857	CB	ILE	372	-8.673	39.456	11.392	1.00	25.30
ATOM	2858	CG2	ILE	372	-8.514	38.192	10.592	1.00	12.60
ATOM	2859	CG1	ILE	372	-9.168	39.126	12.794	1.00	19.94
ATOM	2860	CD1	ILE	372	-8.293	38.154	13.541	1.00	38.80
ATOM	2861	C	ILE	372	-7.544	41.560	12.243	1.00	9.35
ATOM	2862	O	ILE	372	-7.049	41.679	13.367	1.00	26.31
ATOM	2863	N	VAL	373	-8.291	42.505	11.672	1.00	30.76
ATOM	2864	CA	VAL	373	-8.580	43.764	12.348	1.00	33.06
ATOM	2865	CB	VAL	373	-7.956	44.959	11.603	1.00	6.22
ATOM	2866	CG1	VAL	373	-8.093	46.234	12.445	1.00	9.91
ATOM	2867	CG2	VAL	373	-6.494	44.674	11.271	1.00	2.45
ATOM	2868	C	VAL	373	-10.082	43.979	12.443	1.00	36.19
ATOM	2869	O	VAL	373	-10.783	43.908	11.445	1.00	10.76
ATOM	2870	N	TYR	374	-10.563	44.265	13.648	1.00	13.33
ATOM	2871	CA	TYR	374	-11.988	44.474	13.872	1.00	7.67
ATOM	2872	CB	TYR	374	-12.476	43.685	15.091	1.00	15.50
ATOM	2873	CG	TYR	374	-12.104	42.220	15.088	1.00	17.65
ATOM	2874	CD1	TYR	374	-12.890	41.263	14.435	1.00	19.66
ATOM	2875	CE1	TYR	374	-12.565	39.895	14.487	1.00	22.18
ATOM	2876	CD2	TYR	374	-10.983	41.781	15.785	1.00	21.12
ATOM	2877	CE2	TYR	374	-10.649	40.418	15.846	1.00	34.00
ATOM	2878	CZ	TYR	374	-11.443	39.476	15.203	1.00	31.19
ATOM	2879	OH	TYR	374	-11.104	38.135	15.343	1.00	30.62
ATOM	2880	C	TYR	374	-12.314	45.935	14.081	1.00	5.12
ATOM	2881	O	TYR	374	-11.777	46.578	14.979	1.00	16.16
ATOM	2882	N	ILE	375	-13.239	46.438	13.272	1.00	16.98
ATOM	2883	CA	ILE	375	-13.663	47.831	13.352	1.00	12.76
ATOM	2884	CB	ILE	375	-13.779	48.421	11.924	1.00	5.85
ATOM	2885	CG2	ILE	375	-12.466	48.236	11.165	1.00	2.00
ATOM	2886	CG1	ILE	375	-14.847	47.684	11.131	1.00	18.25
ATOM	2887	CD1	ILE	375	-15.656	48.588	10.216	1.00	39.83
ATOM	2888	C	ILE	375	-14.999	47.948	14.105	1.00	9.17
ATOM	2889	O	ILE	375	-16.015	47.518	13.598	1.00	2.00
ATOM	2890	N	PHE	376	-14.999	48.479	15.327	1.00	3.33
ATOM	2891	CA	PHE	376	-16.251	48.600	16.110	1.00	10.40
ATOM	2892	CB	PHE	376	-16.046	48.190	17.578	1.00	19.46
ATOM	2893	CG	PHE	376	-15.531	46.780	17.778	1.00	35.55
ATOM	2894	CD1	PHE	376	-14.252	46.412	17.347	1.00	39.01
ATOM	2895	CD2	PHE	376	-16.290	45.844	18.474	1.00	41.01
ATOM	2896	CE1	PHE	376	-13.736	45.136	17.617	1.00	39.86
ATOM	2897	CE2	PHE	376	-15.781	44.571	18.747	1.00	43.74
ATOM	2898	CZ	PHE	376	-14.499	44.220	18.316	1.00	45.71
ATOM	2899	C	PHE	376	-16.841	50.017	16.086	1.00	14.70
ATOM	2900	O	PHE	376	-16.195	50.976	16.523	1.00	29.17
ATOM	2901	N	ASN	377	-18.099	50.130	15.662	1.00	28.04
ATOM	2902	CA	ASN	377	-18.757	51.435	15.568	1.00	33.08

ATOM	2903	CB	ASN	377	-19.823	51.424	14.469	1.00	22.63
ATOM	2904	CG	ASN	377	-19.236	51.193	13.083	1.00	32.44
ATOM	2905	OD1	ASN	377	-19.678	51.787	12.100	1.00	31.00
ATOM	2906	ND2	ASN	377	-18.239	50.327	12.998	1.00	37.04
ATOM	2907	C	ASN	377	-19.350	51.962	16.875	1.00	39.82
ATOM	2908	O	ASN	377	-19.697	51.194	17.773	1.00	43.85
ATOM	2909	N	GLY	378	-19.442	53.286	16.970	1.00	6.50
ATOM	2910	CA	GLY	378	-19.980	53.916	18.157	1.00	11.94
ATOM	2911	C	GLY	378	-21.467	54.161	18.011	1.00	22.86
ATOM	2912	O	GLY	378	-22.021	54.074	16.910	1.00	89.24
ATOM	2913	N	ARG	379	-22.105	54.473	19.138	1.00	34.71
ATOM	2914	CA	ARG	379	-23.540	54.748	19.216	1.00	29.62
ATOM	2915	CB	ARG	379	-24.347	53.441	19.116	1.00	61.45
ATOM	2916	CG	ARG	379	-23.882	52.295	20.027	1.00	72.68
ATOM	2917	CD	ARG	379	-24.497	50.957	19.624	1.00	83.99
ATOM	2918	NE	ARG	379	-25.950	51.048	19.510	1.00	90.46
ATOM	2919	CZ	ARG	379	-26.617	51.069	18.358	1.00	91.29
ATOM	2920	NH1	ARG	379	-25.963	50.995	17.205	1.00	82.27
ATOM	2921	NH2	ARG	379	-27.938	51.214	18.360	1.00	90.25
ATOM	2922	C	ARG	379	-23.829	55.495	20.522	1.00	25.27
ATOM	2923	O	ARG	379	-22.988	55.522	21.421	1.00	51.78
ATOM	2924	N	SER	380	-25.009	56.105	20.619	1.00	34.66
ATOM	2925	CA	SER	380	-25.410	56.891	21.796	1.00	42.46
ATOM	2926	CB	SER	380	-26.865	57.350	21.657	1.00	82.08
ATOM	2927	OG	SER	380	-27.764	56.261	21.798	1.00	90.78
ATOM	2928	C	SER	380	-25.258	56.171	23.124	1.00	46.06
ATOM	2929	O	SER	380	-24.925	56.771	24.145	1.00	78.42
ATOM	2930	N	THR	381	-25.536	54.878	23.092	1.00	44.76
ATOM	2931	CA	THR	381	-25.477	54.014	24.258	1.00	48.85
ATOM	2932	CB	THR	381	-26.238	52.722	23.943	1.00	47.32
ATOM	2933	OG1	THR	381	-25.696	52.139	22.750	1.00	52.83
ATOM	2934	CG2	THR	381	-27.716	53.031	23.695	1.00	53.87
ATOM	2935	C	THR	381	-24.050	53.684	24.730	1.00	45.81
ATOM	2936	O	THR	381	-23.800	53.520	25.930	1.00	37.75
ATOM	2937	N	GLY	382	-23.127	53.600	23.773	1.00	22.89
ATOM	2938	CA	GLY	382	-21.736	53.280	24.058	1.00	18.45
ATOM	2939	C	GLY	382	-21.162	52.675	22.797	1.00	16.49
ATOM	2940	O	GLY	382	-21.460	53.150	21.707	1.00	46.42
ATOM	2941	N	LEU	383	-20.357	51.629	22.920	1.00	55.32
ATOM	2942	CA	LEU	383	-19.797	50.997	21.730	1.00	50.31
ATOM	2943	CB	LEU	383	-18.316	50.649	21.931	1.00	15.93
ATOM	2944	CG	LEU	383	-17.629	49.814	20.838	1.00	5.04
ATOM	2945	CD1	LEU	383	-17.335	50.627	19.587	1.00	3.49
ATOM	2946	CD2	LEU	383	-16.354	49.285	21.396	1.00	2.40
ATOM	2947	C	LEU	383	-20.577	49.747	21.324	1.00	51.57
ATOM	2948	O	LEU	383	-20.824	48.854	22.142	1.00	34.44
ATOM	2949	N	ASN	384	-20.984	49.708	20.060	1.00	16.46
ATOM	2950	CA	ASN	384	-21.701	48.565	19.518	1.00	18.13
ATOM	2951	CB	ASN	384	-22.139	48.860	18.084	1.00	46.64
ATOM	2952	CG	ASN	384	-23.149	47.868	17.570	1.00	51.59
ATOM	2953	OD1	ASN	384	-23.118	47.480	16.401	1.00	59.19
ATOM	2954	ND2	ASN	384	-24.064	47.458	18.438	1.00	50.15
ATOM	2955	C	ASN	384	-20.703	47.409	19.544	1.00	17.67
ATOM	2956	O	ASN	384	-19.856	47.292	18.659	1.00	35.21
ATOM	2957	N	ALA	385	-20.800	46.591	20.593	1.00	13.01
ATOM	2958	CA	ALA	385	-19.921	45.444	20.839	1.00	5.10
ATOM	2959	CB	ALA	385	-20.345	44.755	22.094	1.00	2.00

ATOM	2960	C	ALA	385	-19.729	44.410	19.729	1.00	8.38
ATOM	2961	O	ALA	385	-18.937	43.473	19.877	1.00	13.59
ATOM	2962	N	VAL	386	-20.435	44.588	18.619	1.00	10.33
ATOM	2963	CA	VAL	386	-20.335	43.668	17.496	1.00	16.22
ATOM	2964	CB	VAL	386	-21.739	43.247	17.009	1.00	32.71
ATOM	2965	CG1	VAL	386	-22.626	42.934	18.208	1.00	35.92
ATOM	2966	CG2	VAL	386	-22.374	44.338	16.152	1.00	46.46
ATOM	2967	C	VAL	386	-19.529	44.261	16.336	1.00	19.47
ATOM	2968	O	VAL	386	-19.796	45.372	15.870	1.00	38.98
ATOM	2969	N	PRO	387	-18.494	43.544	15.888	1.00	31.93
ATOM	2970	CD	PRO	387	-17.986	42.284	16.452	1.00	20.46
ATOM	2971	CA	PRO	387	-17.648	43.999	14.782	1.00	34.22
ATOM	2972	CB	PRO	387	-16.800	42.767	14.478	1.00	20.13
ATOM	2973	CG	PRO	387	-16.614	42.176	15.817	1.00	23.92
ATOM	2974	C	PRO	387	-18.476	44.385	13.569	1.00	31.21
ATOM	2975	O	PRO	387	-19.406	43.669	13.192	1.00	32.42
ATOM	2976	N	SER	388	-18.165	45.537	12.987	1.00	10.14
ATOM	2977	CA	SER	388	-18.878	45.982	11.799	1.00	5.55
ATOM	2978	CB	SER	388	-19.124	47.489	11.846	1.00	5.82
ATOM	2979	OG	SER	388	-19.837	47.838	13.023	1.00	41.11
ATOM	2980	C	SER	388	-18.113	45.580	10.536	1.00	2.00
ATOM	2981	O	SER	388	-18.613	45.730	9.429	1.00	8.27
ATOM	2982	N	GLN	389	-16.931	44.999	10.714	1.00	5.84
ATOM	2983	CA	GLN	389	-16.107	44.563	9.585	1.00	20.13
ATOM	2984	CB	GLN	389	-15.834	45.755	8.648	1.00	11.11
ATOM	2985	CG	GLN	389	-14.974	45.520	7.404	1.00	17.82
ATOM	2986	CD	GLN	389	-14.906	46.773	6.505	1.00	18.20
ATOM	2987	OE1	GLN	389	-15.522	47.804	6.817	1.00	11.94
ATOM	2988	NE2	GLN	389	-14.170	46.682	5.384	1.00	12.60
ATOM	2989	C	GLN	389	-14.804	43.985	10.134	1.00	25.91
ATOM	2990	O	GLN	389	-14.427	44.266	11.283	1.00	18.07
ATOM	2991	N	ILE	390	-14.174	43.106	9.351	1.00	2.25
ATOM	2992	CA	ILE	390	-12.906	42.501	9.745	1.00	23.25
ATOM	2993	CB	ILE	390	-13.042	41.040	10.289	1.00	36.71
ATOM	2994	CG2	ILE	390	-14.073	40.990	11.417	1.00	26.54
ATOM	2995	CG1	ILE	390	-13.385	40.059	9.162	1.00	51.70
ATOM	2996	CD1	ILE	390	-13.240	38.594	9.544	1.00	56.00
ATOM	2997	C	ILE	390	-11.904	42.538	8.598	1.00	27.03
ATOM	2998	O	ILE	390	-12.164	42.046	7.493	1.00	38.86
ATOM	2999	N	LEU	391	-10.781	43.194	8.856	1.00	7.28
ATOM	3000	CA	LEU	391	-9.738	43.310	7.865	1.00	4.92
ATOM	3001	CB	LEU	391	-8.981	44.653	8.007	1.00	29.72
ATOM	3002	CG	LEU	391	-9.551	46.019	7.546	1.00	20.55
ATOM	3003	CD1	LEU	391	-10.569	45.824	6.444	1.00	21.55
ATOM	3004	CD2	LEU	391	-10.188	46.814	8.665	1.00	2.00
ATOM	3005	C	LEU	391	-8.818	42.139	8.126	1.00	7.37
ATOM	3006	O	LEU	391	-8.305	41.981	9.232	1.00	38.94
ATOM	3007	N	GLU	392	-8.638	41.301	7.114	1.00	13.14
ATOM	3008	CA	GLU	392	-7.774	40.137	7.252	1.00	21.13
ATOM	3009	CB	GLU	392	-8.483	38.884	6.721	1.00	43.25
ATOM	3010	CG	GLU	392	-9.916	38.676	7.204	1.00	53.50
ATOM	3011	CD	GLU	392	-10.680	37.662	6.357	1.00	58.55
ATOM	3012	OE1	GLU	392	-10.310	36.471	6.388	1.00	54.61
ATOM	3013	OE2	GLU	392	-11.643	38.053	5.656	1.00	63.61
ATOM	3014	C	GLU	392	-6.493	40.338	6.454	1.00	17.52
ATOM	3015	O	GLU	392	-6.537	40.813	5.313	1.00	23.64
ATOM	3016	N	GLY	393	-5.362	39.958	7.049	1.00	21.12

ATOM	3017	CA	GLY	393	-4.081	40.053	6.363	1.00	22.40
ATOM	3018	C	GLY	393	-4.057	39.107	5.165	1.00	24.52
ATOM	3019	O	GLY	393	-4.837	38.157	5.114	1.00	88.84
ATOM	3020	N	GLN	394	-3.184	39.358	4.194	1.00	57.96
ATOM	3021	CA	GLN	394	-3.109	38.506	3.003	1.00	59.75
ATOM	3022	CB	GLN	394	-3.537	39.287	1.752	1.00	44.77
ATOM	3023	CG	GLN	394	-4.555	40.403	1.974	1.00	54.23
ATOM	3024	CD	GLN	394	-3.909	41.744	2.300	1.00	61.60
ATOM	3025	OE1	GLN	394	-3.440	42.458	1.406	1.00	58.76
ATOM	3026	NE2	GLN	394	-3.897	42.099	3.580	1.00	57.80
ATOM	3027	C	GLN	394	-1.694	37.982	2.773	1.00	57.56
ATOM	3028	O	GLN	394	-1.406	37.370	1.739	1.00	33.71
ATOM	3029	N	TRP	395	-0.828	38.178	3.762	1.00	40.00
ATOM	3030	CA	TRP	395	0.566	37.782	3.634	1.00	38.96
ATOM	3031	CB	TRP	395	1.450	39.006	3.912	1.00	53.09
ATOM	3032	CG	TRP	395	0.900	40.290	3.282	1.00	53.56
ATOM	3033	CD2	TRP	395	1.103	40.749	1.938	1.00	47.38
ATOM	3034	CE2	TRP	395	0.367	41.946	1.787	1.00	49.13
ATOM	3035	CE3	TRP	395	1.833	40.262	0.842	1.00	43.39
ATOM	3036	CD1	TRP	395	0.076	41.210	3.876	1.00	51.86
ATOM	3037	NE1	TRP	395	-0.250	42.203	2.985	1.00	48.79
ATOM	3038	CZ2	TRP	395	0.340	42.668	0.590	1.00	52.43
ATOM	3039	CZ3	TRP	395	1.807	40.978	-0.352	1.00	50.77
ATOM	3040	CH2	TRP	395	1.064	42.168	-0.467	1.00	47.97
ATOM	3041	C	TRP	395	1.000	36.584	4.473	1.00	36.16
ATOM	3042	O	TRP	395	0.578	36.420	5.614	1.00	40.29
ATOM	3043	N	ALA	396	1.849	35.749	3.879	1.00	59.30
ATOM	3044	CA	ALA	396	2.374	34.552	4.533	1.00	66.81
ATOM	3045	CB	ALA	396	2.685	33.479	3.494	1.00	84.59
ATOM	3046	C	ALA	396	3.625	34.879	5.340	1.00	72.92
ATOM	3047	O	ALA	396	4.340	35.826	5.023	1.00	93.95
ATOM	3048	N	ALA	397	3.887	34.079	6.371	1.00	23.44
ATOM	3049	CA	ALA	397	5.046	34.267	7.241	1.00	33.42
ATOM	3050	CB	ALA	397	4.965	33.320	8.437	1.00	60.65
ATOM	3051	C	ALA	397	6.342	34.043	6.467	1.00	47.97
ATOM	3052	O	ALA	397	6.392	33.195	5.574	1.00	99.42
ATOM	3053	N	ARG	398	7.368	34.835	6.781	1.00	97.46
ATOM	3054	CA	ARG	398	8.674	34.733	6.120	1.00	100.00
ATOM	3055	CB	ARG	398	9.223	36.131	5.790	1.00	84.46
ATOM	3056	CG	ARG	398	9.056	36.581	4.327	1.00	86.01
ATOM	3057	CD	ARG	398	7.602	36.887	3.932	1.00	86.01
ATOM	3058	NE	ARG	398	7.489	37.376	2.553	1.00	86.01
ATOM	3059	CZ	ARG	398	6.342	37.562	1.895	1.00	86.01
ATOM	3060	NH1	ARG	398	5.172	37.306	2.471	1.00	86.01
ATOM	3061	NH2	ARG	398	6.368	38.002	0.643	1.00	86.01
ATOM	3062	C	ARG	398	9.676	33.960	6.986	1.00	100.00
ATOM	3063	O	ARG	398	10.293	32.994	6.527	1.00	86.01
ATOM	3064	N	SER	399	9.834	34.406	8.232	1.00	93.43
ATOM	3065	CA	SER	399	10.736	33.784	9.205	1.00	88.09
ATOM	3066	CB	SER	399	12.110	34.467	9.199	1.00	83.52
ATOM	3067	OG	SER	399	12.058	35.758	9.787	1.00	88.83
ATOM	3068	C	SER	399	10.105	33.897	10.593	1.00	82.07
ATOM	3069	O	SER	399	10.653	33.409	11.581	1.00	63.93
ATOM	3070	N	MET	400	8.964	34.579	10.645	1.00	78.76
ATOM	3071	CA	MET	400	8.191	34.788	11.867	1.00	67.57
ATOM	3072	CB	MET	400	8.893	35.778	12.807	1.00	50.26
ATOM	3073	CG	MET	400	8.870	37.224	12.356	1.00	55.50

ATOM	3074	SD	MET	400	9.489	38.298	13.645	1.00	50.40
ATOM	3075	CE	MET	400	8.016	38.470	14.674	1.00	53.78
ATOM	3076	C	MET	400	6.802	35.298	11.455	1.00	59.78
ATOM	3077	O	MET	400	6.596	35.684	10.295	1.00	46.33
ATOM	3078	N	PRO	401	5.837	35.336	12.397	1.00	26.14
ATOM	3079	CD	PRO	401	5.917	35.027	13.838	1.00	20.03
ATOM	3080	CA	PRO	401	4.491	35.804	12.045	1.00	19.39
ATOM	3081	CB	PRO	401	3.732	35.695	13.370	1.00	16.42
ATOM	3082	CG	PRO	401	4.802	35.858	14.399	1.00	17.01
ATOM	3083	C	PRO	401	4.391	37.202	11.444	1.00	18.48
ATOM	3084	O	PRO	401	5.037	38.137	11.917	1.00	21.41
ATOM	3085	N	PRO	402	3.635	37.340	10.343	1.00	20.87
ATOM	3086	CD	PRO	402	3.012	36.248	9.588	1.00	28.05
ATOM	3087	CA	PRO	402	3.424	38.616	9.650	1.00	20.01
ATOM	3088	CB	PRO	402	2.272	38.299	8.682	1.00	26.99
ATOM	3089	CG	PRO	402	1.780	36.912	9.098	1.00	38.13
ATOM	3090	C	PRO	402	3.069	39.766	10.611	1.00	10.62
ATOM	3091	O	PRO	402	3.371	40.933	10.345	1.00	21.97
ATOM	3092	N	SER	403	2.422	39.421	11.720	1.00	5.28
ATOM	3093	CA	SER	403	2.051	40.389	12.749	1.00	3.99
ATOM	3094	CB	SER	403	3.319	40.888	13.432	1.00	2.00
ATOM	3095	OG	SER	403	4.067	39.794	13.949	1.00	17.75
ATOM	3096	C	SER	403	1.147	41.560	12.329	1.00	6.33
ATOM	3097	O	SER	403	1.173	42.619	12.950	1.00	10.31
ATOM	3098	N	PHE	404	0.323	41.326	11.305	1.00	2.00
ATOM	3099	CA	PHE	404	-0.638	42.296	10.757	1.00	2.00
ATOM	3100	CB	PHE	404	-1.439	41.624	9.640	1.00	2.02
ATOM	3101	CG	PHE	404	-2.536	42.472	9.063	1.00	2.00
ATOM	3102	CD1	PHE	404	-2.339	43.166	7.882	1.00	4.98
ATOM	3103	CD2	PHE	404	-3.799	42.492	9.644	1.00	2.00
ATOM	3104	CE1	PHE	404	-3.382	43.858	7.279	1.00	3.85
ATOM	3105	CE2	PHE	404	-4.855	43.183	9.052	1.00	14.02
ATOM	3106	CZ	PHE	404	-4.648	43.865	7.867	1.00	2.00
ATOM	3107	C	PHE	404	-1.600	42.812	11.817	1.00	2.00
ATOM	3108	O	PHE	404	-2.384	42.050	12.369	1.00	16.19
ATOM	3109	N	GLY	405	-1.576	44.117	12.058	1.00	2.00
ATOM	3110	CA	GLY	405	-2.444	44.703	13.065	1.00	4.22
ATOM	3111	C	GLY	405	-1.730	45.028	14.366	1.00	9.99
ATOM	3112	O	GLY	405	-2.334	45.577	15.291	1.00	4.65
ATOM	3113	N	TYR	406	-0.435	44.723	14.424	1.00	11.54
ATOM	3114	CA	TYR	406	0.369	44.964	15.619	1.00	12.96
ATOM	3115	CB	TYR	406	1.801	44.464	15.403	1.00	16.61
ATOM	3116	CG	TYR	406	2.615	44.395	16.672	1.00	21.52
ATOM	3117	CD1	TYR	406	2.677	43.220	17.404	1.00	18.14
ATOM	3118	CE1	TYR	406	3.383	43.149	18.598	1.00	16.46
ATOM	3119	CD2	TYR	406	3.301	45.518	17.156	1.00	13.64
ATOM	3120	CE2	TYR	406	4.017	45.466	18.353	1.00	10.41
ATOM	3121	CZ	TYR	406	4.054	44.269	19.076	1.00	15.51
ATOM	3122	OH	TYR	406	4.713	44.191	20.293	1.00	9.02
ATOM	3123	C	TYR	406	0.392	46.446	15.934	1.00	17.96
ATOM	3124	O	TYR	406	0.251	46.856	17.096	1.00	28.27
ATOM	3125	N	SER	407	0.601	47.232	14.882	1.00	36.55
ATOM	3126	CA	SER	407	0.648	48.679	14.977	1.00	35.56
ATOM	3127	CB	SER	407	2.070	49.181	14.742	1.00	32.97
ATOM	3128	OG	SER	407	2.489	48.888	13.421	1.00	33.30
ATOM	3129	C	SER	407	-0.231	49.206	13.872	1.00	29.65
ATOM	3130	O	SER	407	0.008	48.917	12.702	1.00	16.16

ATOM	3131	N	MET	408	-1.262	49.950	14.243	1.00	2.00
ATOM	3132	CA	MET	408	-2.164	50.534	13.258	1.00	2.00
ATOM	3133	CB	MET	408	-3.433	49.695	13.130	1.00	22.92
ATOM	3134	CG	MET	408	-4.026	49.234	14.451	1.00	29.65
ATOM	3135	SD	MET	408	-5.490	48.174	14.252	1.00	40.73
ATOM	3136	CE	MET	408	-6.662	49.334	13.777	1.00	45.49
ATOM	3137	C	MET	408	-2.479	51.980	13.617	1.00	2.00
ATOM	3138	O	MET	408	-2.372	52.374	14.783	1.00	25.54
ATOM	3139	N	LYS	409	-2.774	52.788	12.606	1.00	17.51
ATOM	3140	CA	LYS	409	-3.092	54.204	12.815	1.00	26.26
ATOM	3141	CB	LYS	409	-1.816	55.057	12.723	1.00	45.03
ATOM	3142	CG	LYS	409	-2.019	56.585	12.706	1.00	58.11
ATOM	3143	CD	LYS	409	-2.634	57.134	13.991	1.00	70.13
ATOM	3144	CE	LYS	409	-2.567	58.665	14.044	1.00	76.70
ATOM	3145	NZ	LYS	409	-3.259	59.349	12.909	1.00	79.78
ATOM	3146	C	LYS	409	-4.153	54.723	11.838	1.00	29.10
ATOM	3147	O	LYS	409	-4.007	54.610	10.612	1.00	40.61
ATOM	3148	N	GLY	410	-5.218	55.301	12.385	1.00	6.24
ATOM	3149	CA	GLY	410	-6.265	55.822	11.529	1.00	11.98
ATOM	3150	C	GLY	410	-6.968	56.970	12.197	1.00	17.11
ATOM	3151	O	GLY	410	-7.318	56.867	13.367	1.00	61.23
ATOM	3152	N	ALA	411	-7.160	58.061	11.463	1.00	55.02
ATOM	3153	CA	ALA	411	-7.827	59.247	11.994	1.00	57.48
ATOM	3154	CB	ALA	411	-7.149	59.711	13.278	1.00	66.94
ATOM	3155	C	ALA	411	-7.850	60.395	10.997	1.00	55.81
ATOM	3156	O	ALA	411	-8.717	61.263	11.072	1.00	64.02
ATOM	3157	N	THR	412	-6.867	60.435	10.101	1.00	48.46
ATOM	3158	CA	THR	412	-6.819	61.510	9.124	1.00	47.63
ATOM	3159	CB	THR	412	-5.420	62.263	9.115	1.00	16.85
ATOM	3160	OG1	THR	412	-4.414	61.466	8.486	1.00	2.00
ATOM	3161	CG2	THR	412	-4.955	62.587	10.562	1.00	15.97
ATOM	3162	C	THR	412	-7.297	61.067	7.734	1.00	45.80
ATOM	3163	O	THR	412	-7.070	59.933	7.306	1.00	9.15
ATOM	3164	N	ASP	413	-8.047	61.967	7.101	1.00	20.97
ATOM	3165	CA	ASP	413	-8.668	61.813	5.780	1.00	15.78
ATOM	3166	CB	ASP	413	-9.776	62.879	5.678	1.00	18.06
ATOM	3167	CG	ASP	413	-10.651	62.747	4.438	1.00	28.82
ATOM	3168	OD1	ASP	413	-10.338	61.958	3.514	1.00	33.77
ATOM	3169	OD2	ASP	413	-11.675	63.470	4.400	1.00	39.14
ATOM	3170	C	ASP	413	-7.645	61.983	4.657	1.00	13.24
ATOM	3171	O	ASP	413	-7.784	62.861	3.807	1.00	3.80
ATOM	3172	N	ILE	414	-6.677	61.078	4.602	1.00	2.00
ATOM	3173	CA	ILE	414	-5.613	61.148	3.599	1.00	9.55
ATOM	3174	CB	ILE	414	-4.737	59.892	3.595	1.00	13.08
ATOM	3175	CG2	ILE	414	-5.382	58.782	2.717	1.00	11.85
ATOM	3176	CG1	ILE	414	-3.354	60.259	3.056	1.00	7.60
ATOM	3177	CD1	ILE	414	-2.324	59.231	3.313	1.00	2.00
ATOM	3178	C	ILE	414	-6.022	61.436	2.154	1.00	14.17
ATOM	3179	O	ILE	414	-5.248	62.031	1.396	1.00	20.43
ATOM	3180	N	ASP	415	-7.190	60.949	1.750	1.00	27.67
ATOM	3181	CA	ASP	415	-7.649	61.198	0.397	1.00	34.64
ATOM	3182	CB	ASP	415	-8.152	59.903	-0.293	1.00	24.58
ATOM	3183	CG	ASP	415	-9.470	59.347	0.287	1.00	31.95
ATOM	3184	OD1	ASP	415	-9.619	58.101	0.323	1.00	25.19
ATOM	3185	OD2	ASP	415	-10.376	60.130	0.653	1.00	32.40
ATOM	3186	C	ASP	415	-8.693	62.304	0.356	1.00	41.49
ATOM	3187	O	ASP	415	-9.022	62.926	1.370	1.00	19.93

ATOM	3188	N	LYS	416	-9.219	62.522	-0.838	1.00	73.34
ATOM	3189	CA	LYS	416	-10.232	63.529	-1.082	1.00	74.82
ATOM	3190	CB	LYS	416	-10.571	63.580	-2.587	1.00	68.83
ATOM	3191	CG	LYS	416	-10.419	62.249	-3.379	1.00	79.67
ATOM	3192	CD	LYS	416	-8.952	61.898	-3.708	1.00	83.06
ATOM	3193	CE	LYS	416	-8.343	62.837	-4.754	1.00	76.74
ATOM	3194	NZ	LYS	416	-6.855	62.724	-4.866	1.00	74.44
ATOM	3195	C	LYS	416	-11.506	63.378	-0.249	1.00	69.56
ATOM	3196	O	LYS	416	-11.771	64.218	0.619	1.00	40.49
ATOM	3197	N	ASN	417	-12.226	62.267	-0.470	1.00	56.31
ATOM	3198	CA	ASN	417	-13.513	61.957	0.176	1.00	55.06
ATOM	3199	CB	ASN	417	-13.935	60.497	-0.066	1.00	58.72
ATOM	3200	CG	ASN	417	-13.343	59.528	0.942	1.00	54.80
ATOM	3201	OD1	ASN	417	-13.645	59.585	2.131	1.00	52.33
ATOM	3202	ND2	ASN	417	-12.525	58.607	0.461	1.00	52.71
ATOM	3203	C	ASN	417	-13.659	62.333	1.637	1.00	55.04
ATOM	3204	O	ASN	417	-12.705	62.267	2.399	1.00	70.19
ATOM	3205	N	GLY	418	-14.889	62.650	2.025	1.00	18.70
ATOM	3206	CA	GLY	418	-15.164	63.091	3.383	1.00	19.24
ATOM	3207	C	GLY	418	-14.987	62.189	4.590	1.00	14.00
ATOM	3208	O	GLY	418	-15.223	62.633	5.711	1.00	48.76
ATOM	3209	N	TYR	419	-14.532	60.957	4.388	1.00	49.09
ATOM	3210	CA	TYR	419	-14.375	60.017	5.495	1.00	39.83
ATOM	3211	CB	TYR	419	-15.101	58.702	5.164	1.00	28.17
ATOM	3212	CG	TYR	419	-16.430	58.924	4.473	1.00	30.66
ATOM	3213	CD1	TYR	419	-16.488	59.067	3.081	1.00	30.94
ATOM	3214	CE1	TYR	419	-17.676	59.398	2.437	1.00	34.90
ATOM	3215	CD2	TYR	419	-17.611	59.099	5.210	1.00	24.70
ATOM	3216	CE2	TYR	419	-18.814	59.426	4.575	1.00	28.95
ATOM	3217	CZ	TYR	419	-18.837	59.581	3.184	1.00	34.12
ATOM	3218	OH	TYR	419	-19.991	59.968	2.531	1.00	37.08
ATOM	3219	C	TYR	419	-12.917	59.742	5.831	1.00	32.21
ATOM	3220	O	TYR	419	-12.027	59.990	5.016	1.00	7.00
ATOM	3221	N	PRO	420	-12.654	59.287	7.070	1.00	2.00
ATOM	3222	CD	PRO	420	-13.658	59.337	8.150	1.00	4.76
ATOM	3223	CA	PRO	420	-11.344	58.944	7.626	1.00	3.17
ATOM	3224	CB	PRO	420	-11.712	58.360	8.979	1.00	9.11
ATOM	3225	CG	PRO	420	-12.803	59.287	9.394	1.00	2.68
ATOM	3226	C	PRO	420	-10.579	57.940	6.785	1.00	2.00
ATOM	3227	O	PRO	420	-10.805	57.837	5.589	1.00	2.00
ATOM	3228	N	ASP	421	-9.638	57.242	7.418	1.00	20.58
ATOM	3229	CA	ASP	421	-8.801	56.227	6.766	1.00	20.90
ATOM	3230	CB	ASP	421	-7.761	56.872	5.836	1.00	7.10
ATOM	3231	CG	ASP	421	-8.363	57.418	4.553	1.00	23.87
ATOM	3232	OD1	ASP	421	-8.249	58.639	4.319	1.00	34.05
ATOM	3233	OD2	ASP	421	-8.950	56.630	3.781	1.00	36.24
ATOM	3234	C	ASP	421	-8.069	55.424	7.842	1.00	29.13
ATOM	3235	O	ASP	421	-8.209	55.707	9.045	1.00	6.51
ATOM	3236	N	LEU	422	-7.246	54.469	7.407	1.00	3.46
ATOM	3237	CA	LEU	422	-6.498	53.632	8.341	1.00	4.43
ATOM	3238	CB	LEU	422	-7.397	52.496	8.832	1.00	39.17
ATOM	3239	CG	LEU	422	-6.755	51.485	9.781	1.00	43.55
ATOM	3240	CD1	LEU	422	-6.627	52.103	11.156	1.00	39.82
ATOM	3241	CD2	LEU	422	-7.589	50.224	9.834	1.00	52.79
ATOM	3242	C	LEU	422	-5.198	53.027	7.798	1.00	2.35
ATOM	3243	O	LEU	422	-5.146	52.548	6.663	1.00	33.20
ATOM	3244	N	ILE	423	-4.172	52.998	8.643	1.00	24.51

ATOM	3245	CA	ILE	423	-2.877	52.424	8.279	1.00	21.41
ATOM	3246	CB	ILE	423	-1.726	53.440	8.439	1.00	2.09
ATOM	3247	CG2	ILE	423	-0.419	52.856	7.897	1.00	2.00
ATOM	3248	CG1	ILE	423	-2.080	54.741	7.734	1.00	6.42
ATOM	3249	CD1	ILE	423	-1.159	55.872	8.074	1.00	16.20
ATOM	3250	C	ILE	423	-2.587	51.267	9.225	1.00	24.17
ATOM	3251	O	ILE	423	-2.577	51.445	10.448	1.00	3.04
ATOM	3252	N	VAL	424	-2.327	50.093	8.658	1.00	18.36
ATOM	3253	CA	VAL	424	-2.031	48.904	9.458	1.00	14.49
ATOM	3254	CB	VAL	424	-3.024	47.769	9.165	1.00	9.09
ATOM	3255	CG1	VAL	424	-2.864	46.667	10.204	1.00	16.02
ATOM	3256	CG2	VAL	424	-4.461	48.308	9.170	1.00	5.46
ATOM	3257	C	VAL	424	-0.599	48.432	9.237	1.00	14.67
ATOM	3258	O	VAL	424	-0.051	48.590	8.156	1.00	8.42
ATOM	3259	N	GLY	425	-0.001	47.817	10.244	1.00	2.00
ATOM	3260	CA	GLY	425	1.372	47.421	10.077	1.00	5.49
ATOM	3261	C	GLY	425	1.786	46.003	10.350	1.00	11.79
ATOM	3262	O	GLY	425	1.992	45.599	11.508	1.00	13.30
ATOM	3263	N	ALA	426	1.963	45.261	9.262	1.00	16.09
ATOM	3264	CA	ALA	426	2.414	43.881	9.339	1.00	23.50
ATOM	3265	CB	ALA	426	1.855	43.076	8.174	1.00	14.28
ATOM	3266	C	ALA	426	3.934	43.941	9.261	1.00	24.49
ATOM	3267	O	ALA	426	4.500	44.082	8.176	1.00	4.06
ATOM	3268	N	PHE	427	4.603	43.875	10.405	1.00	18.23
ATOM	3269	CA	PHE	427	6.053	43.950	10.361	1.00	20.92
ATOM	3270	CB	PHE	427	6.583	44.753	11.543	1.00	22.66
ATOM	3271	CG	PHE	427	6.610	43.998	12.820	1.00	2.00
ATOM	3272	CD1	PHE	427	7.735	43.268	13.180	1.00	2.00
ATOM	3273	CD2	PHE	427	5.526	44.023	13.677	1.00	2.00
ATOM	3274	CE1	PHE	427	7.783	42.571	14.383	1.00	7.64
ATOM	3275	CE2	PHE	427	5.563	43.324	14.893	1.00	4.97
ATOM	3276	CZ	PHE	427	6.696	42.596	15.245	1.00	2.00
ATOM	3277	C	PHE	427	6.776	42.601	10.218	1.00	20.68
ATOM	3278	O	PHE	427	7.995	42.557	10.043	1.00	26.59
ATOM	3279	N	GLY	428	6.025	41.506	10.285	1.00	11.48
ATOM	3280	CA	GLY	428	6.626	40.192	10.136	1.00	13.27
ATOM	3281	C	GLY	428	6.822	39.890	8.665	1.00	15.30
ATOM	3282	O	GLY	428	7.204	38.785	8.285	1.00	58.75
ATOM	3283	N	VAL	429	6.490	40.869	7.832	1.00	27.56
ATOM	3284	CA	VAL	429	6.638	40.766	6.385	1.00	36.62
ATOM	3285	CB	VAL	429	5.322	40.326	5.690	1.00	20.33
ATOM	3286	CG1	VAL	429	4.846	38.994	6.254	1.00	11.92
ATOM	3287	CG2	VAL	429	4.252	41.410	5.818	1.00	26.62
ATOM	3288	C	VAL	429	7.085	42.136	5.858	1.00	39.42
ATOM	3289	O	VAL	429	7.354	42.313	4.657	1.00	19.83
ATOM	3290	N	ASP	430	7.155	43.095	6.784	1.00	41.03
ATOM	3291	CA	ASP	430	7.585	44.460	6.503	1.00	29.28
ATOM	3292	CB	ASP	430	9.036	44.440	6.021	1.00	20.71
ATOM	3293	CG	ASP	430	9.914	43.542	6.893	1.00	23.24
ATOM	3294	OD1	ASP	430	10.506	42.584	6.358	1.00	27.76
ATOM	3295	OD2	ASP	430	9.972	43.760	8.126	1.00	16.01
ATOM	3296	C	ASP	430	6.653	45.134	5.509	1.00	19.33
ATOM	3297	O	ASP	430	6.943	45.234	4.313	1.00	8.36
ATOM	3298	N	ARG	431	5.507	45.569	6.028	1.00	5.42
ATOM	3299	CA	ARG	431	4.483	46.218	5.221	1.00	9.38
ATOM	3300	CB	ARG	431	3.659	45.192	4.423	1.00	13.51
ATOM	3301	CG	ARG	431	4.332	44.670	3.171	1.00	14.55

ATOM	3302	CD	ARG	431	3.405	43.767	2.385	1.00	31.02
ATOM	3303	NE	ARG	431	4.012	43.301	1.135	1.00	42.27
ATOM	3304	CZ	ARG	431	4.858	42.278	1.037	1.00	55.66
ATOM	3305	NH1	ARG	431	5.215	41.590	2.117	1.00	59.62
ATOM	3306	NH2	ARG	431	5.344	41.938	-0.147	1.00	56.86
ATOM	3307	C	ARG	431	3.521	47.068	6.023	1.00	14.95
ATOM	3308	O	ARG	431	3.329	46.877	7.226	1.00	22.55
ATOM	3309	N	ALA	432	2.900	47.993	5.301	1.00	18.24
ATOM	3310	CA	ALA	432	1.911	48.916	5.828	1.00	18.92
ATOM	3311	CB	ALA	432	2.530	50.271	6.060	1.00	10.15
ATOM	3312	C	ALA	432	0.862	48.992	4.733	1.00	24.59
ATOM	3313	O	ALA	432	1.208	49.045	3.549	1.00	13.56
ATOM	3314	N	ILE	433	-0.412	48.948	5.120	1.00	16.70
ATOM	3315	CA	ILE	433	-1.503	48.984	4.150	1.00	11.79
ATOM	3316	CB	ILE	433	-2.211	47.614	4.056	1.00	50.47
ATOM	3317	CG2	ILE	433	-3.069	47.557	2.793	1.00	55.31
ATOM	3318	CG1	ILE	433	-1.170	46.486	4.027	1.00	48.53
ATOM	3319	CD1	ILE	433	-1.748	45.086	4.014	1.00	57.32
ATOM	3320	C	ILE	433	-2.537	50.082	4.429	1.00	8.09
ATOM	3321	O	ILE	433	-3.000	50.257	5.560	1.00	40.55
ATOM	3322	N	LEU	434	-2.904	50.805	3.373	1.00	2.00
ATOM	3323	CA	LEU	434	-3.858	51.896	3.476	1.00	9.65
ATOM	3324	CB	LEU	434	-3.438	53.061	2.579	1.00	16.07
ATOM	3325	CG	LEU	434	-3.366	54.475	3.163	1.00	12.23
ATOM	3326	CD1	LEU	434	-4.746	55.046	3.487	1.00	13.63
ATOM	3327	CD2	LEU	434	-2.488	54.431	4.395	1.00	23.61
ATOM	3328	C	LEU	434	-5.258	51.462	3.111	1.00	13.79
ATOM	3329	O	LEU	434	-5.538	51.074	1.976	1.00	19.17
ATOM	3330	N	TYR	435	-6.140	51.561	4.093	1.00	27.09
ATOM	3331	CA	TYR	435	-7.532	51.209	3.921	1.00	26.76
ATOM	3332	CB	TYR	435	-7.985	50.358	5.102	1.00	15.28
ATOM	3333	CG	TYR	435	-7.466	48.938	5.022	1.00	24.46
ATOM	3334	CD1	TYR	435	-6.891	48.320	6.126	1.00	24.00
ATOM	3335	CE1	TYR	435	-6.448	46.998	6.055	1.00	25.91
ATOM	3336	CD2	TYR	435	-7.581	48.200	3.839	1.00	19.91
ATOM	3337	CE2	TYR	435	-7.144	46.891	3.760	1.00	22.95
ATOM	3338	CZ	TYR	435	-6.582	46.291	4.869	1.00	23.89
ATOM	3339	OH	TYR	435	-6.183	44.978	4.802	1.00	21.63
ATOM	3340	C	TYR	435	-8.343	52.484	3.809	1.00	25.30
ATOM	3341	O	TYR	435	-8.527	53.206	4.793	1.00	11.13
ATOM	3342	N	ARG	436	-8.781	52.786	2.594	1.00	9.16
ATOM	3343	CA	ARG	436	-9.555	53.999	2.363	1.00	11.11
ATOM	3344	CB	ARG	436	-9.395	54.460	0.925	1.00	13.95
ATOM	3345	CG	ARG	436	-7.981	54.650	0.476	1.00	22.91
ATOM	3346	CD	ARG	436	-7.951	54.864	-1.029	1.00	26.94
ATOM	3347	NE	ARG	436	-8.666	56.075	-1.440	1.00	31.62
ATOM	3348	CZ	ARG	436	-8.778	56.484	-2.701	1.00	44.30
ATOM	3349	NH1	ARG	436	-8.226	55.779	-3.683	1.00	50.23
ATOM	3350	NH2	ARG	436	-9.433	57.604	-2.978	1.00	53.35
ATOM	3351	C	ARG	436	-11.039	53.835	2.650	1.00	14.15
ATOM	3352	O	ARG	436	-11.695	52.971	2.066	1.00	13.79
ATOM	3353	N	ALA	437	-11.565	54.675	3.539	1.00	7.26
ATOM	3354	CA	ALA	437	-12.985	54.639	3.879	1.00	2.76
ATOM	3355	CB	ALA	437	-13.281	55.560	5.053	1.00	18.03
ATOM	3356	C	ALA	437	-13.783	55.067	2.645	1.00	12.06
ATOM	3357	O	ALA	437	-13.420	56.031	1.962	1.00	33.05
ATOM	3358	N	ARG	438	-14.845	54.323	2.342	1.00	66.87

ATOM	3359	CA	ARG	438	-15.681	54.606	1.178	1.00	67.45
ATOM	3360	CB	ARG	438	-16.089	53.310	0.485	1.00	32.20
ATOM	3361	CG	ARG	438	-14.988	52.284	0.334	1.00	43.95
ATOM	3362	CD	ARG	438	-15.475	51.097	-0.485	1.00	52.13
ATOM	3363	NE	ARG	438	-16.860	50.746	-0.164	1.00	49.71
ATOM	3364	CZ	ARG	438	-17.485	49.665	-0.617	1.00	58.61
ATOM	3365	NH1	ARG	438	-16.845	48.813	-1.411	1.00	66.27
ATOM	3366	NH2	ARG	438	-18.754	49.452	-0.300	1.00	57.38
ATOM	3367	C	ARG	438	-16.946	55.380	1.525	1.00	65.68
ATOM	3368	O	ARG	438	-17.495	55.240	2.618	1.00	19.82
ATOM	3369	N	PRO	439	-17.446	56.185	0.574	1.00	12.42
ATOM	3370	CD	PRO	439	-16.832	56.469	-0.738	1.00	83.31
ATOM	3371	CA	PRO	439	-18.657	56.986	0.761	1.00	12.23
ATOM	3372	CB	PRO	439	-18.871	57.587	-0.624	1.00	87.10
ATOM	3373	CG	PRO	439	-17.466	57.789	-1.115	1.00	86.18
ATOM	3374	C	PRO	439	-19.844	56.148	1.222	1.00	8.91
ATOM	3375	O	PRO	439	-20.042	55.024	0.767	1.00	81.73
ATOM	3376	N	VAL	440	-20.603	56.698	2.158	1.00	30.97
ATOM	3377	CA	VAL	440	-21.765	56.020	2.718	1.00	40.63
ATOM	3378	CB	VAL	440	-21.687	55.982	4.276	1.00	24.88
ATOM	3379	CG1	VAL	440	-22.913	55.292	4.878	1.00	26.29
ATOM	3380	CG2	VAL	440	-20.410	55.274	4.716	1.00	39.07
ATOM	3381	C	VAL	440	-23.054	56.712	2.293	1.00	45.58
ATOM	3382	O	VAL	440	-23.239	57.905	2.554	1.00	31.64
ATOM	3383	N	ILE	441	-23.948	55.951	1.658	1.00	65.47
ATOM	3384	CA	ILE	441	-25.235	56.479	1.197	1.00	51.98
ATOM	3385	CB	ILE	441	-25.515	56.137	-0.262	1.00	14.70
ATOM	3386	CG2	ILE	441	-26.621	57.050	-0.788	1.00	11.97
ATOM	3387	CG1	ILE	441	-24.232	56.234	-1.091	1.00	22.48
ATOM	3388	CD1	ILE	441	-24.385	55.784	-2.519	1.00	18.61
ATOM	3389	C	ILE	441	-26.401	55.888	1.961	1.00	55.00
ATOM	3390	O	ILE	441	-26.432	54.685	2.215	1.00	30.76
ATOM	3391	N	THR	442	-27.375	56.733	2.287	1.00	34.32
ATOM	3392	CA	THR	442	-28.572	56.294	2.996	1.00	41.16
ATOM	3393	CB	THR	442	-28.772	57.078	4.315	1.00	53.33
ATOM	3394	OG1	THR	442	-28.852	58.479	4.042	1.00	59.96
ATOM	3395	CG2	THR	442	-27.602	56.839	5.258	1.00	54.26
ATOM	3396	C	THR	442	-29.729	56.506	2.019	1.00	47.58
ATOM	3397	O	THR	442	-29.935	57.617	1.528	1.00	49.38
ATOM	3398	N	VAL	443	-30.449	55.425	1.710	1.00	92.32
ATOM	3399	CA	VAL	443	-31.554	55.461	0.745	1.00	95.31
ATOM	3400	CB	VAL	443	-31.287	54.460	-0.402	1.00	65.33
ATOM	3401	CG1	VAL	443	-31.353	53.025	0.120	1.00	72.71
ATOM	3402	CG2	VAL	443	-32.259	54.682	-1.548	1.00	67.00
ATOM	3403	C	VAL	443	-32.959	55.198	1.296	1.00	98.84
ATOM	3404	O	VAL	443	-33.163	54.305	2.124	1.00	76.74
ATOM	3405	N	ASN	444	-33.930	55.958	0.789	1.00	86.79
ATOM	3406	CA	ASN	444	-35.327	55.823	1.200	1.00	90.37
ATOM	3407	CB	ASN	444	-35.838	57.131	1.812	1.00	74.04
ATOM	3408	CG	ASN	444	-35.055	57.542	3.047	1.00	75.54
ATOM	3409	OD1	ASN	444	-35.006	58.720	3.399	1.00	74.62
ATOM	3410	ND2	ASN	444	-34.435	56.571	3.709	1.00	76.21
ATOM	3411	C	ASN	444	-36.217	55.415	0.026	1.00	91.07
ATOM	3412	O	ASN	444	-36.300	56.119	-0.980	1.00	70.66
ATOM	3413	N	ALA	445	-36.870	54.264	0.159	1.00	55.06
ATOM	3414	CA	ALA	445	-37.747	53.759	-0.886	1.00	55.02
ATOM	3415	CB	ALA	445	-37.428	52.302	-1.178	1.00	68.03

ATOM	3416	C	ALA	445	-39.218	53.913	-0.506	1.00	57.13
ATOM	3417	O	ALA	445	-39.563	54.036	0.671	1.00	70.34
ATOM	3418	N	GLY	446	-40.078	53.904	-1.519	1.00	99.90
ATOM	3419	CA	GLY	446	-41.508	54.026	-1.298	1.00	94.47
ATOM	3420	C	GLY	446	-42.273	53.167	-2.287	1.00	89.56
ATOM	3421	O	GLY	446	-41.926	53.105	-3.465	1.00	65.92
ATOM	3422	N	LEU	447	-43.304	52.484	-1.810	1.00	58.02
ATOM	3423	CA	LEU	447	-44.110	51.629	-2.676	1.00	49.41
ATOM	3424	CB	LEU	447	-43.672	50.168	-2.541	1.00	50.49
ATOM	3425	CG	LEU	447	-44.293	49.119	-3.470	1.00	35.01
ATOM	3426	CD1	LEU	447	-43.486	49.011	-4.745	1.00	21.46
ATOM	3427	CD2	LEU	447	-44.315	47.768	-2.780	1.00	36.67
ATOM	3428	C	LEU	447	-45.572	51.761	-2.275	1.00	49.45
ATOM	3429	O	LEU	447	-45.933	51.495	-1.122	1.00	58.95
ATOM	3430	N	GLU	448	-46.407	52.198	-3.218	1.00	45.64
ATOM	3431	CA	GLU	448	-47.829	52.358	-2.951	1.00	52.29
ATOM	3432	CB	GLU	448	-48.126	53.770	-2.437	1.00	87.76
ATOM	3433	CG	GLU	448	-49.284	53.842	-1.428	1.00	100.00
ATOM	3434	CD	GLU	448	-49.026	53.057	-0.134	1.00	100.00
ATOM	3435	OE1	GLU	448	-49.303	51.834	-0.109	1.00	93.78
ATOM	3436	OE2	GLU	448	-48.570	53.669	0.864	1.00	100.00
ATOM	3437	C	GLU	448	-48.680	52.029	-4.171	1.00	50.07
ATOM	3438	O	GLU	448	-48.536	52.634	-5.235	1.00	71.29
ATOM	3439	N	VAL	449	-49.524	51.014	-4.004	1.00	65.30
ATOM	3440	CA	VAL	449	-50.438	50.531	-5.035	1.00	66.34
ATOM	3441	CB	VAL	449	-50.700	49.024	-4.852	1.00	35.29
ATOM	3442	CG1	VAL	449	-51.084	48.723	-3.410	1.00	42.38
ATOM	3443	CG2	VAL	449	-51.773	48.553	-5.815	1.00	36.85
ATOM	3444	C	VAL	449	-51.744	51.326	-4.960	1.00	73.85
ATOM	3445	O	VAL	449	-52.276	51.549	-3.867	1.00	48.69
ATOM	3446	N	TYR	450	-52.277	51.706	-6.121	1.00	72.15
ATOM	3447	CA	TYR	450	-53.481	52.531	-6.180	1.00	71.93
ATOM	3448	CB	TYR	450	-53.661	53.150	-7.572	1.00	87.30
ATOM	3449	CG	TYR	450	-52.620	54.180	-7.930	1.00	97.34
ATOM	3450	CD1	TYR	450	-52.745	54.945	-9.085	1.00	97.44
ATOM	3451	CE1	TYR	450	-51.771	55.868	-9.442	1.00	99.53
ATOM	3452	CD2	TYR	450	-51.496	54.377	-7.127	1.00	97.05
ATOM	3453	CE2	TYR	450	-50.518	55.295	-7.471	1.00	100.00
ATOM	3454	CZ	TYR	450	-50.661	56.040	-8.628	1.00	100.00
ATOM	3455	OH	TYR	450	-49.684	56.941	-8.984	1.00	100.00
ATOM	3456	C	TYR	450	-54.804	52.004	-5.625	1.00	73.90
ATOM	3457	O	TYR	450	-55.213	52.416	-4.537	1.00	96.62
ATOM	3458	N	PRO	451	-55.509	51.121	-6.357	1.00	84.01
ATOM	3459	CD	PRO	451	-55.378	50.711	-7.765	1.00	69.57
ATOM	3460	CA	PRO	451	-56.778	50.631	-5.809	1.00	77.59
ATOM	3461	CB	PRO	451	-57.298	49.738	-6.929	1.00	70.43
ATOM	3462	CG	PRO	451	-56.811	50.455	-8.150	1.00	73.90
ATOM	3463	C	PRO	451	-56.724	49.915	-4.452	1.00	76.24
ATOM	3464	O	PRO	451	-57.683	50.001	-3.677	1.00	69.11
ATOM	3465	N	SER	452	-55.605	49.250	-4.151	1.00	74.87
ATOM	3466	CA	SER	452	-55.418	48.527	-2.879	1.00	71.97
ATOM	3467	CB	SER	452	-55.599	49.459	-1.672	1.00	52.70
ATOM	3468	OG	SER	452	-55.576	48.727	-0.456	1.00	54.11
ATOM	3469	C	SER	452	-56.354	47.337	-2.734	1.00	74.72
ATOM	3470	O	SER	452	-55.907	46.191	-2.689	1.00	62.30
ATOM	3471	N	ILE	453	-57.640	47.641	-2.562	1.00	33.44
ATOM	3472	CA	ILE	453	-58.695	46.642	-2.441	1.00	31.76

ATOM	3473	CB	ILE	453	-59.799	47.140	-1.491	1.00	21.17
ATOM	3474	CG2	ILE	453	-61.063	46.332	-1.667	1.00	21.83
ATOM	3475	CG1	ILE	453	-59.280	47.069	-0.046	1.00	31.48
ATOM	3476	CD1	ILE	453	-60.009	47.961	0.985	1.00	38.74
ATOM	3477	C	ILE	453	-59.232	46.355	-3.845	1.00	31.76
ATOM	3478	O	ILE	453	-60.137	47.027	-4.337	1.00	39.77
ATOM	3479	N	LEU	454	-58.609	45.383	-4.501	1.00	19.22
ATOM	3480	CA	LEU	454	-58.969	44.984	-5.852	1.00	23.53
ATOM	3481	CB	LEU	454	-57.930	44.002	-6.394	1.00	48.07
ATOM	3482	CG	LEU	454	-56.477	44.473	-6.346	1.00	41.87
ATOM	3483	CD1	LEU	454	-55.596	43.566	-7.199	1.00	27.31
ATOM	3484	CD2	LEU	454	-56.406	45.895	-6.852	1.00	39.77
ATOM	3485	C	LEU	454	-60.376	44.388	-6.008	1.00	31.40
ATOM	3486	O	LEU	454	-60.784	43.498	-5.262	1.00	60.85
ATOM	3487	N	ASN	455	-61.091	44.873	-7.018	1.00	85.59
ATOM	3488	CA	ASN	455	-62.444	44.422	-7.313	1.00	78.07
ATOM	3489	CB	ASN	455	-63.369	45.627	-7.394	1.00	26.88
ATOM	3490	CG	ASN	455	-64.815	45.247	-7.582	1.00	41.43
ATOM	3491	OD1	ASN	455	-65.691	45.827	-6.947	1.00	43.94
ATOM	3492	ND2	ASN	455	-65.083	44.292	-8.468	1.00	48.95
ATOM	3493	C	ASN	455	-62.474	43.666	-8.637	1.00	80.84
ATOM	3494	O	ASN	455	-62.185	44.224	-9.691	1.00	41.04
ATOM	3495	N	GLN	456	-62.938	42.424	-8.577	1.00	49.06
ATOM	3496	CA	GLN	456	-63.022	41.545	-9.739	1.00	47.84
ATOM	3497	CB	GLN	456	-63.506	40.159	-9.301	1.00	40.54
ATOM	3498	CG	GLN	456	-62.677	39.490	-8.213	1.00	28.95
ATOM	3499	CD	GLN	456	-61.838	38.349	-8.749	1.00	28.92
ATOM	3500	OE1	GLN	456	-61.292	38.426	-9.860	1.00	25.42
ATOM	3501	NE2	GLN	456	-61.734	37.271	-7.966	1.00	28.40
ATOM	3502	C	GLN	456	-63.933	42.044	-10.855	1.00	49.36
ATOM	3503	O	GLN	456	-63.532	42.058	-12.013	1.00	31.07
ATOM	3504	N	ASP	457	-65.164	42.419	-10.504	1.00	66.43
ATOM	3505	CA	ASP	457	-66.147	42.881	-11.486	1.00	79.90
ATOM	3506	CB	ASP	457	-67.569	42.511	-11.046	1.00	79.11
ATOM	3507	CG	ASP	457	-68.266	41.596	-12.042	1.00	85.47
ATOM	3508	OD1	ASP	457	-68.069	40.360	-11.970	1.00	85.47
ATOM	3509	OD2	ASP	457	-69.002	42.116	-12.906	1.00	85.47
ATOM	3510	C	ASP	457	-66.074	44.358	-11.872	1.00	89.23
ATOM	3511	O	ASP	457	-67.098	44.995	-12.138	1.00	85.47
ATOM	3512	N	ASN	458	-64.853	44.887	-11.902	1.00	90.52
ATOM	3513	CA	ASN	458	-64.593	46.270	-12.284	1.00	87.35
ATOM	3514	CB	ASN	458	-63.494	46.861	-11.378	1.00	85.77
ATOM	3515	CG	ASN	458	-62.642	47.932	-12.068	1.00	87.14
ATOM	3516	OD1	ASN	458	-61.959	47.654	-13.057	1.00	86.98
ATOM	3517	ND2	ASN	458	-62.596	49.132	-11.491	1.00	87.14
ATOM	3518	C	ASN	458	-64.173	46.266	-13.754	1.00	84.28
ATOM	3519	O	ASN	458	-63.437	45.379	-14.199	1.00	70.66
ATOM	3520	N	LYS	459	-64.658	47.248	-14.508	1.00	100.00
ATOM	3521	CA	LYS	459	-64.328	47.371	-15.929	1.00	100.00
ATOM	3522	CB	LYS	459	-65.346	48.304	-16.619	1.00	82.14
ATOM	3523	CG	LYS	459	-65.579	48.044	-18.115	1.00	80.44
ATOM	3524	CD	LYS	459	-66.340	49.204	-18.760	1.00	80.31
ATOM	3525	CE	LYS	459	-66.959	48.820	-20.104	1.00	77.04
ATOM	3526	NZ	LYS	459	-68.205	48.008	-19.958	1.00	73.75
ATOM	3527	C	LYS	459	-62.887	47.920	-16.065	1.00	100.00
ATOM	3528	O	LYS	459	-61.926	47.273	-15.638	1.00	77.05
ATOM	3529	N	THR	460	-62.763	49.105	-16.666	1.00	71.28

ATOM	3530	CA	THR	460	-61.498	49.820	-16.884	1.00	58.67
ATOM	3531	CB	THR	460	-60.908	50.352	-15.549	1.00	43.92
ATOM	3532	OG1	THR	460	-61.959	50.850	-14.712	1.00	55.03
ATOM	3533	CG2	THR	460	-59.955	51.496	-15.817	1.00	48.06
ATOM	3534	C	THR	460	-60.400	49.081	-17.659	1.00	51.53
ATOM	3535	O	THR	460	-60.390	47.852	-17.755	1.00	32.45
ATOM	3536	N	CYS	461	-59.500	49.865	-18.246	1.00	64.04
ATOM	3537	CA	CYS	461	-58.356	49.362	-19.007	1.00	71.03
ATOM	3538	C	CYS	461	-58.668	48.477	-20.201	1.00	65.67
ATOM	3539	O	CYS	461	-59.750	48.550	-20.778	1.00	100.00
ATOM	3540	CB	CYS	461	-57.380	48.643	-18.076	1.00	100.00
ATOM	3541	SG	CYS	461	-56.574	49.738	-16.871	1.00	100.00
ATOM	3542	N	SER	462	-57.687	47.665	-20.578	1.00	22.51
ATOM	3543	CA	SER	462	-57.804	46.751	-21.703	1.00	29.41
ATOM	3544	CB	SER	462	-58.264	47.482	-22.971	1.00	97.35
ATOM	3545	OG	SER	462	-57.501	48.649	-23.203	1.00	99.09
ATOM	3546	C	SER	462	-56.480	46.059	-21.952	1.00	29.01
ATOM	3547	O	SER	462	-55.417	46.683	-21.904	1.00	87.64
ATOM	3548	N	LEU	463	-56.552	44.764	-22.227	1.00	47.79
ATOM	3549	CA	LEU	463	-55.362	43.968	-22.478	1.00	57.62
ATOM	3550	CB	LEU	463	-55.751	42.504	-22.726	1.00	83.95
ATOM	3551	CG	LEU	463	-56.140	41.685	-21.492	1.00	84.23
ATOM	3552	CD1	LEU	463	-57.013	40.511	-21.900	1.00	78.41
ATOM	3553	CD2	LEU	463	-54.880	41.224	-20.759	1.00	87.54
ATOM	3554	C	LEU	463	-54.556	44.514	-23.648	1.00	64.48
ATOM	3555	O	LEU	463	-55.082	45.249	-24.482	1.00	88.72
ATOM	3556	N	PRO	464	-53.255	44.192	-23.698	1.00	81.07
ATOM	3557	CD	PRO	464	-52.524	43.312	-22.770	1.00	100.00
ATOM	3558	CA	PRO	464	-52.376	44.655	-24.774	1.00	80.14
ATOM	3559	CB	PRO	464	-51.035	44.010	-24.415	1.00	100.00
ATOM	3560	CG	PRO	464	-51.441	42.770	-23.649	1.00	100.00
ATOM	3561	C	PRO	464	-52.884	44.206	-26.144	1.00	81.07
ATOM	3562	O	PRO	464	-53.223	45.039	-26.987	1.00	100.00
ATOM	3563	N	GLY	465	-52.952	42.893	-26.353	1.00	98.61
ATOM	3564	CA	GLY	465	-53.441	42.367	-27.615	1.00	98.61
ATOM	3565	C	GLY	465	-54.912	42.703	-27.762	1.00	96.51
ATOM	3566	O	GLY	465	-55.270	43.669	-28.435	1.00	89.59
ATOM	3567	N	THR	466	-55.759	41.911	-27.112	1.00	96.67
ATOM	3568	CA	THR	466	-57.203	42.123	-27.135	1.00	94.89
ATOM	3569	CB	THR	466	-57.951	40.916	-26.524	1.00	71.92
ATOM	3570	OG1	THR	466	-57.286	40.495	-25.325	1.00	65.56
ATOM	3571	CG2	THR	466	-58.020	39.756	-27.510	1.00	68.15
ATOM	3572	C	THR	466	-57.544	43.376	-26.324	1.00	97.13
ATOM	3573	O	THR	466	-56.986	43.595	-25.251	1.00	74.50
ATOM	3574	N	ALA	467	-58.449	44.204	-26.835	1.00	97.45
ATOM	3575	CA	ALA	467	-58.837	45.420	-26.125	1.00	98.97
ATOM	3576	CB	ALA	467	-59.352	46.464	-27.111	1.00	100.00
ATOM	3577	C	ALA	467	-59.880	45.143	-25.031	1.00	98.76
ATOM	3578	O	ALA	467	-60.665	46.026	-24.668	1.00	100.00
ATOM	3579	N	LEU	468	-59.859	43.923	-24.490	1.00	75.01
ATOM	3580	CA	LEU	468	-60.791	43.507	-23.442	1.00	66.94
ATOM	3581	CB	LEU	468	-60.669	42.004	-23.158	1.00	63.90
ATOM	3582	CG	LEU	468	-60.485	41.014	-24.313	1.00	65.98
ATOM	3583	CD1	LEU	468	-60.293	39.602	-23.764	1.00	68.30
ATOM	3584	CD2	LEU	468	-61.659	41.077	-25.278	1.00	63.29
ATOM	3585	C	LEU	468	-60.497	44.251	-22.156	1.00	63.70
ATOM	3586	O	LEU	468	-59.389	44.174	-21.634	1.00	67.58

ATOM	3587	N	LYS	469	-61.493	44.973	-21.655	1.00	71.77
ATOM	3588	CA	LYS	469	-61.365	45.719	-20.407	1.00	80.86
ATOM	3589	CB	LYS	469	-62.674	46.455	-20.092	1.00	67.56
ATOM	3590	CG	LYS	469	-62.958	47.677	-20.972	1.00	65.45
ATOM	3591	CD	LYS	469	-63.055	47.348	-22.470	1.00	60.85
ATOM	3592	CE	LYS	469	-64.305	46.526	-22.818	1.00	55.39
ATOM	3593	NZ	LYS	469	-64.362	46.164	-24.268	1.00	47.85
ATOM	3594	C	LYS	469	-61.035	44.717	-19.297	1.00	86.20
ATOM	3595	O	LYS	469	-61.490	43.571	-19.338	1.00	76.43
ATOM	3596	N	VAL	470	-60.228	45.136	-18.325	1.00	100.00
ATOM	3597	CA	VAL	470	-59.828	44.252	-17.226	1.00	91.32
ATOM	3598	CB	VAL	470	-58.552	43.457	-17.615	1.00	78.79
ATOM	3599	CG1	VAL	470	-57.437	44.412	-18.013	1.00	72.16
ATOM	3600	CG2	VAL	470	-58.123	42.530	-16.486	1.00	85.02
ATOM	3601	C	VAL	470	-59.592	45.042	-15.940	1.00	84.78
ATOM	3602	O	VAL	470	-59.206	46.205	-16.001	1.00	73.75
ATOM	3603	N	SER	471	-59.811	44.411	-14.785	1.00	75.44
ATOM	3604	CA	SER	471	-59.634	45.084	-13.494	1.00	70.23
ATOM	3605	CB	SER	471	-60.079	44.207	-12.334	1.00	24.03
ATOM	3606	OG	SER	471	-59.984	44.953	-11.135	1.00	2.00
ATOM	3607	C	SER	471	-58.237	45.628	-13.208	1.00	77.98
ATOM	3608	O	SER	471	-57.301	44.897	-12.853	1.00	33.19
ATOM	3609	N	CYS	472	-58.155	46.949	-13.254	1.00	86.81
ATOM	3610	CA	CYS	472	-56.909	47.643	-13.052	1.00	87.12
ATOM	3611	C	CYS	472	-56.553	48.094	-11.661	1.00	87.46
ATOM	3612	O	CYS	472	-57.387	48.147	-10.756	1.00	59.82
ATOM	3613	CB	CYS	472	-56.837	48.836	-13.988	1.00	61.86
ATOM	3614	SG	CYS	472	-55.891	48.439	-15.476	1.00	76.64
ATOM	3615	N	PHE	473	-55.268	48.393	-11.521	1.00	65.76
ATOM	3616	CA	PHE	473	-54.674	48.900	-10.301	1.00	56.34
ATOM	3617	CB	PHE	473	-54.712	47.877	-9.143	1.00	39.84
ATOM	3618	CG	PHE	473	-53.731	46.747	-9.261	1.00	43.59
ATOM	3619	CD1	PHE	473	-52.501	46.812	-8.614	1.00	40.02
ATOM	3620	CD2	PHE	473	-54.043	45.606	-9.991	1.00	50.02
ATOM	3621	CE1	PHE	473	-51.596	45.764	-8.689	1.00	40.82
ATOM	3622	CE2	PHE	473	-53.143	44.550	-10.072	1.00	44.69
ATOM	3623	CZ	PHE	473	-51.916	44.629	-9.421	1.00	44.84
ATOM	3624	C	PHE	473	-53.271	49.329	-10.673	1.00	50.71
ATOM	3625	O	PHE	473	-52.540	48.602	-11.351	1.00	19.13
ATOM	3626	N	ASN	474	-52.950	50.570	-10.336	1.00	63.48
ATOM	3627	CA	ASN	474	-51.640	51.107	-10.655	1.00	71.67
ATOM	3628	CB	ASN	474	-51.737	52.577	-11.062	1.00	58.30
ATOM	3629	CG	ASN	474	-52.888	52.845	-12.008	1.00	72.55
ATOM	3630	OD1	ASN	474	-53.435	53.944	-12.030	1.00	79.16
ATOM	3631	ND2	ASN	474	-53.279	51.834	-12.778	1.00	75.32
ATOM	3632	C	ASN	474	-50.705	50.963	-9.477	1.00	72.04
ATOM	3633	O	ASN	474	-51.137	50.866	-8.325	1.00	52.43
ATOM	3634	N	VAL	475	-49.416	50.967	-9.777	1.00	71.39
ATOM	3635	CA	VAL	475	-48.407	50.832	-8.751	1.00	73.23
ATOM	3636	CB	VAL	475	-48.036	49.329	-8.577	1.00	42.14
ATOM	3637	CG1	VAL	475	-47.494	48.747	-9.878	1.00	25.48
ATOM	3638	CG2	VAL	475	-47.076	49.138	-7.413	1.00	43.53
ATOM	3639	C	VAL	475	-47.201	51.730	-9.080	1.00	75.75
ATOM	3640	O	VAL	475	-46.635	51.656	-10.172	1.00	53.15
ATOM	3641	N	ARG	476	-46.881	52.639	-8.157	1.00	74.57
ATOM	3642	CA	ARG	476	-45.765	53.578	-8.314	1.00	71.82
ATOM	3643	CB	ARG	476	-46.252	55.011	-8.126	1.00	65.99

ATOM	3644	CG	ARG	476	-46.369	55.424	-6.655	1.00	71.53
ATOM	3645	CD	ARG-	476	-46.967	56.798	-6.512	1.00	77.32
ATOM	3646	NE	ARG	476	-46.507	57.678	-7.580	1.00	79.13
ATOM	3647	CZ	ARG	476	-46.600	59.001	-7.554	1.00	79.13
ATOM	3648	NH1	ARG	476	-47.134	59.615	-6.503	1.00	79.13
ATOM	3649	NH2	ARG	476	-46.178	59.709	-8.594	1.00	79.13
ATOM	3650	C	ARG	476	-44.690	53.301	-7.268	1.00	68.40
ATOM	3651	O	ARG	476	-44.974	52.721	-6.223	1.00	46.22
ATOM	3652	N	PHE	477	-43.483	53.808	-7.494	1.00	67.46
ATOM	3653	CA	PHE	477	-42.403	53.574	-6.546	1.00	66.62
ATOM	3654	CB	PHE	477	-41.796	52.203	-6.799	1.00	43.72
ATOM	3655	CG	PHE	477	-41.344	52.001	-8.200	1.00	41.98
ATOM	3656	CD1	PHE	477	-39.988	51.966	-8.504	1.00	47.39
ATOM	3657	CD2	PHE	477	-42.267	51.823	-9.215	1.00	44.08
ATOM	3658	CE1	PHE	477	-39.550	51.755	-9.807	1.00	52.32
ATOM	3659	CE2	PHE	477	-41.849	51.612	-10.522	1.00	58.01
ATOM	3660	CZ	PHE	477	-40.481	51.575	-10.821	1.00	55.77
ATOM	3661	C	PHE	477	-41.305	54.635	-6.514	1.00	70.70
ATOM	3662	O	PHE	477	-40.388	54.636	-7.347	1.00	42.59
ATOM	3663	N	CYS	478	-41.377	55.498	-5.502	1.00	57.13
ATOM	3664	CA	CYS	478	-40.411	56.576	-5.321	1.00	61.67
ATOM	3665	C	CYS	478	-39.119	56.102	-4.653	1.00	60.81
ATOM	3666	O	CYS	478	-39.124	55.175	-3.844	1.00	97.68
ATOM	3667	CB	CYS	478	-41.036	57.709	-4.506	1.00	99.38
ATOM	3668	SG	CYS	478	-42.614	58.358	-5.162	1.00	100.00
ATOM	3669	N	LEU	479	-38.024	56.786	-4.966	1.00	88.08
ATOM	3670	CA	LEU	479	-36.711	56.443	-4.431	1.00	84.81
ATOM	3671	CB	LEU	479	-35.982	55.564	-5.450	1.00	45.20
ATOM	3672	CG	LEU	479	-34.932	54.569	-4.973	1.00	38.89
ATOM	3673	CD1	LEU	479	-35.559	53.623	-3.965	1.00	22.75
ATOM	3674	CD2	LEU	479	-34.390	53.802	-6.166	1.00	34.50
ATOM	3675	C	LEU	479	-35.920	57.726	-4.192	1.00	81.37
ATOM	3676	O	LEU	479	-35.703	58.496	-5.117	1.00	37.67
ATOM	3677	N	LYS	480	-35.467	57.939	-2.961	1.00	83.96
ATOM	3678	CA	LYS	480	-34.712	59.145	-2.607	1.00	91.63
ATOM	3679	CB	LYS	480	-35.604	60.061	-1.770	1.00	100.00
ATOM	3680	CG	LYS	480	-34.953	61.334	-1.268	1.00	100.00
ATOM	3681	CD	LYS	480	-35.894	62.056	-0.312	1.00	100.00
ATOM	3682	CE	LYS	480	-36.178	61.216	0.926	1.00	100.00
ATOM	3683	NZ	LYS	480	-37.265	61.793	1.766	1.00	100.00
ATOM	3684	C	LYS	480	-33.428	58.815	-1.835	1.00	94.33
ATOM	3685	O	LYS	480	-33.463	58.074	-0.847	1.00	100.00
ATOM	3686	N	ALA	481	-32.308	59.399	-2.261	1.00	95.26
ATOM	3687	CA	ALA	481	-31.021	59.143	-1.615	1.00	95.86
ATOM	3688	CB	ALA	481	-30.372	57.916	-2.231	1.00	100.00
ATOM	3689	C	ALA	481	-30.051	60.314	-1.672	1.00	96.91
ATOM	3690	O	ALA	481	-29.985	61.025	-2.676	1.00	100.00
ATOM	3691	N	ASP	482	-29.275	60.481	-0.600	1.00	95.36
ATOM	3692	CA	ASP	482	-28.281	61.551	-0.507	1.00	95.36
ATOM	3693	CB	ASP	482	-28.951	62.897	-0.235	1.00	68.83
ATOM	3694	CG	ASP	482	-27.968	64.051	-0.249	1.00	68.83
ATOM	3695	OD1	ASP	482	-27.936	64.799	0.751	1.00	68.83
ATOM	3696	OD2	ASP	482	-27.228	64.205	-1.253	1.00	68.77
ATOM	3697	C	ASP	482	-27.232	61.278	0.568	1.00	95.36
ATOM	3698	O	ASP	482	-27.566	61.048	1.733	1.00	68.83
ATOM	3699	N	GLY	483	-25.965	61.376	0.172	1.00	100.00
ATOM	3700	CA	GLY	483	-24.863	61.121	1.085	1.00	100.00

ATOM	3701	C	GLY	483	-24.064	62.312	1.591	1.00	97.89
ATOM	3702	O	GLY	483	-23.924	63.340	0.917	1.00	84.54
ATOM	3703	N	LYS	484	-23.497	62.124	2.781	1.00	60.20
ATOM	3704	CA	LYS	484	-22.689	63.125	3.470	1.00	47.95
ATOM	3705	CB	LYS	484	-22.942	62.996	4.972	1.00	58.41
ATOM	3706	CG	LYS	484	-22.298	64.058	5.832	1.00	68.21
ATOM	3707	CD	LYS	484	-22.791	63.952	7.275	1.00	76.64
ATOM	3708	CE	LYS	484	-22.200	65.044	8.151	1.00	82.46
ATOM	3709	NZ	LYS	484	-22.761	65.038	9.523	1.00	86.04
ATOM	3710	C	LYS	484	-21.193	62.969	3.169	1.00	44.05
ATOM	3711	O	LYS	484	-20.432	62.537	4.026	1.00	64.92
ATOM	3712	N	GLY	485	-20.783	63.311	1.948	1.00	43.12
ATOM	3713	CA	GLY	485	-19.382	63.204	1.559	1.00	45.73
ATOM	3714	C	GLY	485	-19.122	63.531	0.095	1.00	47.06
ATOM	3715	O	GLY	485	-19.927	64.197	-0.559	1.00	83.04
ATOM	3716	N	VAL	486	-17.981	63.076	-0.414	1.00	42.95
ATOM	3717	CA	VAL	486	-17.593	63.288	-1.813	1.00	44.76
ATOM	3718	CB	VAL	486	-16.046	63.370	-1.944	1.00	54.33
ATOM	3719	CG1	VAL	486	-15.622	63.575	-3.390	1.00	47.16
ATOM	3720	CG2	VAL	486	-15.523	64.498	-1.090	1.00	53.50
ATOM	3721	C	VAL	486	-18.116	62.114	-2.647	1.00	49.68
ATOM	3722	O	VAL	486	-17.430	61.090	-2.796	1.00	65.60
ATOM	3723	N	LEU	487	-19.320	62.267	-3.203	1.00	65.75
ATOM	3724	CA	LEU	487	-19.917	61.188	-3.985	1.00	63.70
ATOM	3725	CB	LEU	487	-20.299	60.026	-3.053	1.00	52.44
ATOM	3726	CG	LEU	487	-21.501	60.150	-2.094	1.00	44.53
ATOM	3727	CD1	LEU	487	-21.904	58.771	-1.636	1.00	52.21
ATOM	3728	CD2	LEU	487	-21.222	61.037	-0.882	1.00	40.35
ATOM	3729	C	LEU	487	-21.104	61.429	-4.928	1.00	67.06
ATOM	3730	O	LEU	487	-21.100	60.890	-6.038	1.00	47.27
ATOM	3731	N	PRO	488	-22.107	62.254	-4.523	1.00	100.00
ATOM	3732	CD	PRO	488	-21.992	63.191	-3.383	1.00	65.44
ATOM	3733	CA	PRO	488	-23.326	62.571	-5.291	1.00	100.00
ATOM	3734	CB	PRO	488	-23.771	63.911	-4.689	1.00	61.72
ATOM	3735	CG	PRO	488	-23.402	63.764	-3.263	1.00	58.55
ATOM	3736	C	PRO	488	-23.353	62.585	-6.830	1.00	100.00
ATOM	3737	O	PRO	488	-22.530	61.957	-7.507	1.00	64.17
ATOM	3738	N	ARG	489	-24.382	63.247	-7.359	1.00	97.09
ATOM	3739	CA	ARG	489	-24.612	63.388	-8.797	1.00	99.34
ATOM	3740	CB	ARG	489	-23.356	63.914	-9.524	1.00	100.00
ATOM	3741	CG	ARG	489	-22.838	65.273	-9.032	1.00	100.00
ATOM	3742	CD	ARG	489	-23.840	66.416	-9.243	1.00	100.00
ATOM	3743	NE	ARG	489	-23.488	67.592	-8.443	1.00	100.00
ATOM	3744	CZ	ARG	489	-24.146	67.991	-7.354	1.00	100.00
ATOM	3745	NH1	ARG	489	-25.211	67.319	-6.926	1.00	100.00
ATOM	3746	NH2	ARG	489	-23.704	69.032	-6.655	1.00	100.00
ATOM	3747	C	ARG	489	-25.115	62.101	-9.456	1.00	99.97
ATOM	3748	O	ARG	489	-26.304	61.782	-9.382	1.00	100.00
ATOM	3749	N	LYS	490	-24.199	61.360	-10.075	1.00	100.00
ATOM	3750	CA	LYS	490	-24.513	60.118	-10.782	1.00	100.00
ATOM	3751	CB	LYS	490	-23.357	59.785	-11.730	1.00	100.00
ATOM	3752	CG	LYS	490	-23.471	58.484	-12.509	1.00	100.00
ATOM	3753	CD	LYS	490	-22.202	58.271	-13.309	1.00	100.00
ATOM	3754	CE	LYS	490	-20.971	58.546	-12.443	1.00	100.00
ATOM	3755	NZ	LYS	490	-19.682	58.377	-13.169	1.00	100.00
ATOM	3756	C	LYS	490	-24.835	58.926	-9.875	1.00	100.00
ATOM	3757	O	LYS	490	-23.992	58.051	-9.654	1.00	100.00

ATOM	3758	N	LEU	491	-26.067	58.895	-9.366	1.00100.00
ATOM	3759	CA	LEU	491	-26.522	57.814	-8.494	1.00100.00
ATOM	3760	CB	LEU	491	-27.042	58.371	-7.161	1.00 75.78
ATOM	3761	CG	LEU	491	-25.978	58.879	-6.177	1.00 68.90
ATOM	3762	CD1	LEU	491	-26.613	59.587	-4.977	1.00 65.98
ATOM	3763	CD2	LEU	491	-25.115	57.711	-5.725	1.00 61.01
ATOM	3764	C	LEU	491	-27.586	56.956	-9.180	1.00100.00
ATOM	3765	O	LEU	491	-28.788	57.215	-9.074	1.00 89.96
ATOM	3766	N	ASN	492	-27.112	55.943	-9.898	1.00 55.79
ATOM	3767	CA	ASN	492	-27.956	55.012	-10.634	1.00 55.78
ATOM	3768	CB	ASN	492	-27.206	54.528	-11.876	1.00 91.77
ATOM	3769	CG	ASN	492	-25.705	54.408	-11.641	1.00 96.84
ATOM	3770	OD1	ASN	492	-24.911	55.086	-12.290	1.00 96.84
ATOM	3771	ND2	ASN	492	-25.316	53.568	-10.690	1.00 96.84
ATOM	3772	C	ASN	492	-28.388	53.827	-9.767	1.00 58.23
ATOM	3773	O	ASN	492	-27.599	53.295	-8.981	1.00 96.84
ATOM	3774	N	PHE	493	-29.645	53.419	-9.924	1.00 96.18
ATOM	3775	CA	PHE	493	-30.211	52.306	-9.166	1.00 95.95
ATOM	3776	CB	PHE	493	-31.214	52.826	-8.133	1.00 83.47
ATOM	3777	CG	PHE	493	-30.589	53.491	-6.937	1.00 84.28
ATOM	3778	CD1	PHE	493	-30.726	54.862	-6.738	1.00 83.44
ATOM	3779	CD2	PHE	493	-29.929	52.739	-5.970	1.00 83.07
ATOM	3780	CE1	PHE	493	-30.225	55.471	-5.584	1.00 79.69
ATOM	3781	CE2	PHE	493	-29.426	53.340	-4.814	1.00 82.78
ATOM	3782	CZ	PHE	493	-29.575	54.706	-4.622	1.00 79.59
ATOM	3783	C	PHE	493	-30.937	51.295	-10.057	1.00 96.18
ATOM	3784	O	PHE	493	-31.528	51.659	-11.073	1.00 88.59
ATOM	3785	N	GLN	494	-30.900	50.027	-9.655	1.00 99.46
ATOM	3786	CA	GLN	494	-31.579	48.956	-10.380	1.00 99.46
ATOM	3787	CB	GLN	494	-30.641	47.764	-10.602	1.00 99.06
ATOM	3788	CG	GLN	494	-29.393	48.082	-11.401	1.00 99.06
ATOM	3789	CD	GLN	494	-29.704	48.776	-12.715	1.00 99.06
ATOM	3790	OE1	GLN	494	-30.268	48.179	-13.638	1.00 99.06
ATOM	3791	NE2	GLN	494	-29.346	50.052	-12.800	1.00 99.06
ATOM	3792	C	GLN	494	-32.768	48.507	-9.537	1.00 92.78
ATOM	3793	O	GLN	494	-32.586	47.836	-8.520	1.00 88.65
ATOM	3794	N	VAL	495	-33.975	48.910	-9.928	1.00 60.61
ATOM	3795	CA	VAL	495	-35.178	48.525	-9.182	1.00 54.85
ATOM	3796	CB	VAL	495	-36.223	49.677	-9.119	1.00 95.34
ATOM	3797	CG1	VAL	495	-37.412	49.277	-8.244	1.00 95.65
ATOM	3798	CG2	VAL	495	-35.581	50.938	-8.563	1.00 91.49
ATOM	3799	C	VAL	495	-35.823	47.262	-9.759	1.00 53.96
ATOM	3800	O	VAL	495	-35.769	47.011	-10.964	1.00 94.41
ATOM	3801	N	GLU	496	-36.422	46.470	-8.879	1.00 69.67
ATOM	3802	CA	GLU	496	-37.064	45.227	-9.268	1.00 73.92
ATOM	3803	CB	GLU	496	-36.139	44.057	-8.928	1.00 91.17
ATOM	3804	CG	GLU	496	-36.701	42.702	-9.284	1.00 98.64
ATOM	3805	CD	GLU	496	-37.142	42.634	-10.728	1.00100.00
ATOM	3806	OE1	GLU	496	-38.362	42.508	-10.967	1.00100.00
ATOM	3807	OE2	GLU	496	-36.271	42.726	-11.620	1.00100.00
ATOM	3808	C	GLU	496	-38.412	45.053	-8.569	1.00 75.46
ATOM	3809	O	GLU	496	-38.476	44.934	-7.340	1.00 81.31
ATOM	3810	N	LEU	497	-39.484	45.030	-9.359	1.00 75.13
ATOM	3811	CA	LEU	497	-40.835	44.866	-8.823	1.00 75.75
ATOM	3812	CB	LEU	497	-41.808	45.777	-9.552	1.00 32.35
ATOM	3813	CG	LEU	497	-41.660	47.270	-9.298	1.00 30.67
ATOM	3814	CD1	LEU	497	-42.437	48.003	-10.362	1.00 34.01

ATOM	3815	CD2	LEU	497	-42.162	47.645	-7.913	1.00	23.38
ATOM	3816	C	LEU	497	-41.335	43.430	-8.890	1.00	79.48
ATOM	3817	O	LEU	497	-40.963	42.674	-9.791	1.00	48.80
ATOM	3818	N	LEU	498	-42.232	43.083	-7.968	1.00	56.29
ATOM	3819	CA	LEU	498	-42.775	41.730	-7.891	1.00	51.22
ATOM	3820	CB	LEU	498	-41.976	40.913	-6.881	1.00	41.11
ATOM	3821	CG	LEU	498	-41.393	39.598	-7.371	1.00	50.11
ATOM	3822	CD1	LEU	498	-40.639	39.812	-8.673	1.00	49.84
ATOM	3823	CD2	LEU	498	-40.469	39.065	-6.311	1.00	51.59
ATOM	3824	C	LEU	498	-44.238	41.674	-7.495	1.00	42.28
ATOM	3825	O	LEU	498	-44.619	42.124	-6.413	1.00	10.49
ATOM	3826	N	LEU	499	-45.054	41.081	-8.354	1.00	47.18
ATOM	3827	CA	LEU	499	-46.470	40.958	-8.052	1.00	49.68
ATOM	3828	CB	LEU	499	-47.317	41.200	-9.303	1.00	49.50
ATOM	3829	CG	LEU	499	-47.194	42.584	-9.945	1.00	47.58
ATOM	3830	CD1	LEU	499	-48.304	42.772	-10.957	1.00	53.37
ATOM	3831	CD2	LEU	499	-47.282	43.662	-8.881	1.00	49.55
ATOM	3832	C	LEU	499	-46.785	39.595	-7.426	1.00	52.45
ATOM	3833	O	LEU	499	-46.344	38.549	-7.918	1.00	53.98
ATOM	3834	N	ASP	500	-47.523	39.637	-6.317	1.00	46.90
ATOM	3835	CA	ASP	500	-47.922	38.450	-5.561	1.00	47.16
ATOM	3836	CB	ASP	500	-48.884	37.576	-6.380	1.00	47.80
ATOM	3837	CG	ASP	500	-50.037	37.004	-5.544	1.00	54.58
ATOM	3838	OD1	ASP	500	-50.783	36.174	-6.098	1.00	49.62
ATOM	3839	OD2	ASP	500	-50.212	37.371	-4.355	1.00	51.03
ATOM	3840	C	ASP	500	-46.676	37.675	-5.169	1.00	50.90
ATOM	3841	O	ASP	500	-46.291	36.712	-5.829	1.00	51.24
ATOM	3842	N	LYS	501	-46.012	38.155	-4.126	1.00	81.69
ATOM	3843	CA	LYS	501	-44.797	37.521	-3.652	1.00	82.06
ATOM	3844	CB	LYS	501	-43.962	38.524	-2.845	1.00	53.50
ATOM	3845	CG	LYS	501	-42.582	38.015	-2.452	1.00	59.14
ATOM	3846	CD	LYS	501	-41.822	37.510	-3.670	1.00	58.48
ATOM	3847	CE	LYS	501	-40.435	36.999	-3.305	1.00	56.25
ATOM	3848	NZ	LYS	501	-39.690	36.525	-4.512	1.00	44.15
ATOM	3849	C	LYS	501	-45.120	36.273	-2.828	1.00	82.42
ATOM	3850	O	LYS	501	-44.381	35.279	-2.872	1.00	61.80
ATOM	3851	N	LEU	502	-46.256	36.314	-2.131	1.00	86.21
ATOM	3852	CA	LEU	502	-46.712	35.205	-1.293	1.00	84.90
ATOM	3853	CB	LEU	502	-48.055	35.543	-0.645	1.00	69.53
ATOM	3854	CG	LEU	502	-48.085	36.670	0.382	1.00	68.17
ATOM	3855	CD1	LEU	502	-49.462	36.745	1.018	1.00	57.11
ATOM	3856	CD2	LEU	502	-47.029	36.418	1.443	1.00	71.55
ATOM	3857	C	LEU	502	-46.851	33.899	-2.069	1.00	86.44
ATOM	3858	O	LEU	502	-46.778	32.813	-1.487	1.00	74.05
ATOM	3859	N	LYS	503	-47.082	34.014	-3.376	1.00	40.09
ATOM	3860	CA	LYS	503	-47.232	32.857	-4.244	1.00	49.33
ATOM	3861	CB	LYS	503	-48.117	33.209	-5.439	1.00	59.05
ATOM	3862	CG	LYS	503	-49.560	33.520	-5.052	1.00	61.22
ATOM	3863	CD	LYS	503	-50.098	32.520	-4.027	1.00	62.03
ATOM	3864	CE	LYS	503	-51.622	32.532	-3.930	1.00	65.17
ATOM	3865	NZ	LYS	503	-52.289	31.957	-5.136	1.00	67.87
ATOM	3866	C	LYS	503	-45.885	32.279	-4.691	1.00	56.73
ATOM	3867	O	LYS	503	-45.218	32.814	-5.579	1.00	69.30
ATOM	3868	N	GLN	504	-45.516	31.167	-4.059	1.00	92.76
ATOM	3869	CA	GLN	504	-44.260	30.453	-4.292	1.00	92.36
ATOM	3870	CB	GLN	504	-44.158	29.292	-3.283	1.00	97.20
ATOM	3871	CG	GLN	504	-42.740	28.776	-2.997	1.00	100.00

ATOM	3872	CD	GLN	504	-42.716	27.568	-2.059	1.00100.00
ATOM	3873	OE1	GLN	504	-43.681	27.299	-1.337	1.00100.00
ATOM	3874	NE2	GLN	504	-41.605	26.837	-2.069	1.00100.00
ATOM	3875	C	GLN	504	-44.091	29.927	-5.721	1.00 92.24
ATOM	3876	O	GLN	504	-44.471	30.581	-6.694	1.00 90.73
ATOM	3877	N	LYS	505	-43.473	28.754	-5.827	1.00 86.94
ATOM	3878	CA	LYS	505	-43.233	28.095	-7.099	1.00 90.94
ATOM	3879	CB	LYS	505	-42.099	27.073	-6.952	1.00 77.34
ATOM	3880	CG	LYS	505	-40.711	27.687	-6.768	1.00 70.72
ATOM	3881	CD	LYS	505	-40.238	28.419	-8.031	1.00 71.67
ATOM	3882	CE	LYS	505	-40.029	27.462	-9.220	1.00 67.97
ATOM	3883	NZ	LYS	505	-39.642	28.151	-10.496	1.00 47.68
ATOM	3884	C	LYS	505	-44.513	27.418	-7.601	1.00 91.04
ATOM	3885	O	LYS	505	-44.516	26.783	-8.656	1.00 77.34
ATOM	3886	N	GLY	506	-45.597	27.571	-6.840	1.00 98.59
ATOM	3887	CA	GLY	506	-46.880	26.996	-7.215	1.00 98.59
ATOM	3888	C	GLY	506	-47.380	27.591	-8.517	1.00 98.59
ATOM	3889	O	GLY	506	-48.112	26.944	-9.263	1.00100.00
ATOM	3890	N	ALA	507	-46.988	28.840	-8.763	1.00100.00
ATOM	3891	CA	ALA	507	-47.322	29.587	-9.977	1.00100.00
ATOM	3892	CB	ALA	507	-47.086	28.720	-11.226	1.00 99.84
ATOM	3893	C	ALA	507	-48.672	30.306	-10.075	1.00100.00
ATOM	3894	O	ALA	507	-48.942	30.945	-11.098	1.00 99.84
ATOM	3895	N	ILE	508	-49.523	30.217	-9.051	1.00 99.89
ATOM	3896	CA	ILE	508	-50.806	30.917	-9.125	1.00 99.89
ATOM	3897	CB	ILE	508	-51.857	30.386	-8.109	1.00 95.46
ATOM	3898	CG2	ILE	508	-53.150	31.201	-8.208	1.00 89.42
ATOM	3899	CG1	ILE	508	-52.204	28.929	-8.411	1.00 95.83
ATOM	3900	CD1	ILE	508	-53.493	28.461	-7.740	1.00 90.36
ATOM	3901	C	ILE	508	-50.582	32.421	-8.927	1.00 99.89
ATOM	3902	O	ILE	508	-50.844	32.969	-7.853	1.00 94.56
ATOM	3903	N	ARG	509	-50.053	33.068	-9.965	1.00 91.81
ATOM	3904	CA	ARG	509	-49.782	34.503	-9.935	1.00 79.14
ATOM	3905	CB	ARG	509	-48.596	34.853	-10.834	1.00 87.40
ATOM	3906	CG	ARG	509	-47.280	34.330	-10.283	1.00 88.97
ATOM	3907	CD	ARG	509	-47.127	34.756	-8.830	1.00 86.85
ATOM	3908	NE	ARG	509	-45.973	34.155	-8.171	1.00 87.99
ATOM	3909	CZ	ARG	509	-44.712	34.352	-8.539	1.00 91.38
ATOM	3910	NH1	ARG	509	-44.434	35.131	-9.577	1.00 95.44
ATOM	3911	NH2	ARG	509	-43.725	33.808	-7.838	1.00 94.53
ATOM	3912	C	ARG	509	-51.024	35.276	-10.324	1.00 67.77
ATOM	3913	O	ARG	509	-51.264	35.575	-11.496	1.00 66.42
ATOM	3914	N	ARG	510	-51.792	35.608	-9.295	1.00 15.41
ATOM	3915	CA	ARG	510	-53.061	36.314	-9.418	1.00 9.76
ATOM	3916	CB	ARG	510	-53.730	36.390	-8.034	1.00 40.92
ATOM	3917	CG	ARG	510	-53.454	35.127	-7.184	1.00 40.86
ATOM	3918	CD	ARG	510	-54.603	34.680	-6.285	1.00 35.87
ATOM	3919	NE	ARG	510	-54.927	35.612	-5.207	1.00 37.61
ATOM	3920	CZ	ARG	510	-54.124	35.920	-4.192	1.00 33.09
ATOM	3921	NH1	ARG	510	-52.917	35.386	-4.091	1.00 41.05
ATOM	3922	NH2	ARG	510	-54.552	36.744	-3.250	1.00 26.62
ATOM	3923	C	ARG	510	-53.000	37.684	-10.103	1.00 9.13
ATOM	3924	O	ARG	510	-53.986	38.132	-10.687	1.00 40.83
ATOM	3925	N	ALA	511	-51.831	38.316	-10.093	1.00 48.44
ATOM	3926	CA	ALA	511	-51.670	39.621	-10.721	1.00 38.12
ATOM	3927	CB	ALA	511	-51.571	40.695	-9.660	1.00 2.00
ATOM	3928	C	ALA	511	-50.457	39.685	-11.651	1.00 41.50

ATOM	3929	O	ALA	511	-49.453	38.982	-11.447	1.00	18.39
ATOM	3930	N	LEU	512	-50.574	40.522	-12.683	1.00	39.27
ATOM	3931	CA	LEU	512	-49.515	40.739	-13.674	1.00	50.02
ATOM	3932	CB	LEU	512	-49.717	39.845	-14.912	1.00	46.12
ATOM	3933	CG	LEU	512	-50.041	38.344	-14.802	1.00	56.47
ATOM	3934	CD1	LEU	512	-50.322	37.781	-16.185	1.00	59.92
ATOM	3935	CD2	LEU	512	-48.912	37.570	-14.142	1.00	53.68
ATOM	3936	C	LEU	512	-49.537	42.213	-14.107	1.00	56.74
ATOM	3937	O	LEU	512	-50.549	42.908	-13.965	1.00	45.67
ATOM	3938	N	PHE	513	-48.412	42.694	-14.620	1.00	66.93
ATOM	3939	CA	PHE	513	-48.331	44.076	-15.074	1.00	75.39
ATOM	3940	CB	PHE	513	-46.871	44.493	-15.261	1.00	73.68
ATOM	3941	CG	PHE	513	-46.134	44.688	-13.962	1.00	70.09
ATOM	3942	CD1	PHE	513	-45.159	43.783	-13.554	1.00	64.73
ATOM	3943	CD2	PHE	513	-46.446	45.763	-13.127	1.00	66.78
ATOM	3944	CE1	PHE	513	-44.512	43.943	-12.334	1.00	57.89
ATOM	3945	CE2	PHE	513	-45.804	45.932	-11.905	1.00	52.19
ATOM	3946	CZ	PHE	513	-44.835	45.021	-11.509	1.00	56.97
ATOM	3947	C	PHE	513	-49.123	44.218	-16.362	1.00	74.75
ATOM	3948	O	PHE	513	-49.655	43.229	-16.864	1.00	59.86
ATOM	3949	N	LEU	514	-49.207	45.431	-16.903	1.00	60.37
ATOM	3950	CA	LEU	514	-49.979	45.639	-18.123	1.00	62.31
ATOM	3951	CB	LEU	514	-50.350	47.116	-18.293	1.00	55.77
ATOM	3952	CG	LEU	514	-51.676	47.427	-19.007	1.00	58.77
ATOM	3953	CD1	LEU	514	-51.745	46.835	-20.417	1.00	67.22
ATOM	3954	CD2	LEU	514	-52.825	46.906	-18.170	1.00	61.17
ATOM	3955	C	LEU	514	-49.339	45.113	-19.404	1.00	62.84
ATOM	3956	O	LEU	514	-49.434	43.931	-19.715	1.00	53.25
ATOM	3957	N	TYR	515	-48.700	46.014	-20.139	1.00	75.06
ATOM	3958	CA	TYR	515	-48.062	45.735	-21.427	1.00	76.31
ATOM	3959	CB	TYR	515	-47.351	47.001	-21.897	1.00	75.15
ATOM	3960	CG	TYR	515	-48.213	48.235	-21.726	1.00	75.43
ATOM	3961	CD1	TYR	515	-48.304	48.881	-20.488	1.00	72.99
ATOM	3962	CE1	TYR	515	-49.125	49.984	-20.313	1.00	75.41
ATOM	3963	CD2	TYR	515	-48.975	48.726	-22.782	1.00	78.22
ATOM	3964	CE2	TYR	515	-49.800	49.830	-22.616	1.00	81.48
ATOM	3965	CZ	TYR	515	-49.874	50.452	-21.380	1.00	82.26
ATOM	3966	OH	TYR	515	-50.683	51.554	-21.226	1.00	90.55
ATOM	3967	C	TYR	515	-47.133	44.525	-21.512	1.00	76.55
ATOM	3968	O	TYR	515	-46.746	44.106	-22.605	1.00	72.24
ATOM	3969	N	SER	516	-46.791	43.969	-20.356	1.00	64.75
ATOM	3970	CA	SER	516	-45.931	42.796	-20.263	1.00	75.51
ATOM	3971	CB	SER	516	-44.524	43.203	-19.826	1.00	99.79
ATOM	3972	OG	SER	516	-44.565	44.001	-18.653	1.00	99.79
ATOM	3973	C	SER	516	-46.568	41.869	-19.233	1.00	80.18
ATOM	3974	O	SER	516	-46.298	41.961	-18.031	1.00	99.79
ATOM	3975	N	ARG	517	-47.461	41.013	-19.722	1.00	100.00
ATOM	3976	CA	ARG	517	-48.193	40.066	-18.889	1.00	100.00
ATOM	3977	CB	ARG	517	-49.231	39.326	-19.742	1.00	87.87
ATOM	3978	CG	ARG	517	-50.300	40.263	-20.332	1.00	87.13
ATOM	3979	CD	ARG	517	-51.115	39.618	-21.450	1.00	93.25
ATOM	3980	NE	ARG	517	-50.329	39.427	-22.669	1.00	93.25
ATOM	3981	CZ	ARG	517	-49.893	38.250	-23.114	1.00	93.25
ATOM	3982	NH1	ARG	517	-50.164	37.138	-22.443	1.00	93.25
ATOM	3983	NH2	ARG	517	-49.169	38.185	-24.226	1.00	93.25
ATOM	3984	C	ARG	517	-47.259	39.103	-18.162	1.00	100.00
ATOM	3985	O	ARG	517	-46.912	38.037	-18.668	1.00	91.64

ATOM	3986	N	SER	518	-46.831	39.534	-16.979	1.00	76.90
ATOM	3987	CA	SER	518	-45.929	38.784	-16.109	1.00	68.50
ATOM	3988	CB	SER	518	-44.517	38.723	-16.713	1.00	60.18
ATOM	3989	OG	SER	518	-43.625	38.001	-15.877	1.00	47.58
ATOM	3990	C	SER	518	-45.899	39.541	-14.787	1.00	65.53
ATOM	3991	O	SER	518	-46.119	40.752	-14.758	1.00	52.35
ATOM	3992	N	PRO	519	-45.666	38.833	-13.671	1.00	62.02
ATOM	3993	CD	PRO	519	-45.489	37.373	-13.556	1.00	89.25
ATOM	3994	CA	PRO	519	-45.618	39.466	-12.349	1.00	70.87
ATOM	3995	CB	PRO	519	-45.827	38.282	-11.413	1.00	94.71
ATOM	3996	CG	PRO	519	-45.064	37.202	-12.107	1.00	97.91
ATOM	3997	C	PRO	519	-44.267	40.120	-12.095	1.00	75.56
ATOM	3998	O	PRO	519	-44.093	40.857	-11.122	1.00	100.00
ATOM	3999	N	SER	520	-43.318	39.834	-12.982	1.00	70.59
ATOM	4000	CA	SER	520	-41.965	40.359	-12.877	1.00	61.86
ATOM	4001	CB	SER	520	-40.951	39.218	-12.991	1.00	71.05
ATOM	4002	OG	SER	520	-41.110	38.287	-11.934	1.00	79.69
ATOM	4003	C	SER	520	-41.638	41.422	-13.909	1.00	56.39
ATOM	4004	O	SER	520	-41.587	41.146	-15.110	1.00	58.17
ATOM	4005	N	HIS	521	-41.415	42.638	-13.421	1.00	62.49
ATOM	4006	CA	HIS	521	-41.050	43.765	-14.269	1.00	66.19
ATOM	4007	CB	HIS	521	-42.135	44.839	-14.256	1.00	100.00
ATOM	4008	CG	HIS	521	-41.655	46.176	-14.722	1.00	100.00
ATOM	4009	CD2	HIS	521	-41.380	46.642	-15.958	1.00	100.00
ATOM	4010	ND1	HIS	521	-41.334	47.193	-13.843	1.00	97.35
ATOM	4011	CE1	HIS	521	-40.878	48.225	-14.526	1.00	97.52
ATOM	4012	NE2	HIS	521	-40.893	47.922	-15.810	1.00	100.00
ATOM	4013	C	HIS	521	-39.724	44.355	-13.795	1.00	72.29
ATOM	4014	O	HIS	521	-39.534	44.614	-12.603	1.00	100.00
ATOM	4015	N	SER	522	-38.825	44.587	-14.748	1.00	92.71
ATOM	4016	CA	SER	522	-37.505	45.133	-14.463	1.00	97.86
ATOM	4017	CB	SER	522	-36.438	44.291	-15.166	1.00	100.00
ATOM	4018	OG	SER	522	-36.595	42.915	-14.867	1.00	100.00
ATOM	4019	C	SER	522	-37.374	46.590	-14.897	1.00	98.19
ATOM	4020	O	SER	522	-37.980	47.012	-15.885	1.00	100.00
ATOM	4021	N	LYS	523	-36.568	47.348	-14.157	1.00	92.99
ATOM	4022	CA	LYS	523	-36.334	48.758	-14.454	1.00	93.16
ATOM	4023	CB	LYS	523	-37.517	49.616	-13.979	1.00	85.22
ATOM	4024	CG	LYS	523	-37.546	51.039	-14.548	1.00	79.88
ATOM	4025	CD	LYS	523	-37.424	51.027	-16.074	1.00	76.00
ATOM	4026	CE	LYS	523	-37.738	52.382	-16.682	1.00	70.47
ATOM	4027	NZ	LYS	523	-36.829	53.436	-16.187	1.00	54.89
ATOM	4028	C	LYS	523	-35.035	49.248	-13.811	1.00	98.91
ATOM	4029	O	LYS	523	-34.384	48.518	-13.057	1.00	97.42
ATOM	4030	N	ASN	524	-34.659	50.480	-14.141	1.00	82.65
ATOM	4031	CA	ASN	524	-33.449	51.098	-13.617	1.00	82.65
ATOM	4032	CB	ASN	524	-32.194	50.555	-14.333	1.00	94.41
ATOM	4033	CG	ASN	524	-32.339	50.483	-15.859	1.00	94.41
ATOM	4034	OD1	ASN	524	-31.465	49.945	-16.545	1.00	94.41
ATOM	4035	ND2	ASN	524	-33.435	51.019	-16.390	1.00	94.41
ATOM	4036	C	ASN	524	-33.512	52.620	-13.694	1.00	79.87
ATOM	4037	O	ASN	524	-33.165	53.215	-14.711	1.00	92.58
ATOM	4038	N	MET	525	-33.960	53.247	-12.610	1.00	100.00
ATOM	4039	CA	MET	525	-34.073	54.702	-12.560	1.00	100.00
ATOM	4040	CB	MET	525	-35.286	55.097	-11.712	1.00	57.91
ATOM	4041	CG	MET	525	-35.360	54.422	-10.364	1.00	55.05
ATOM	4042	SD	MET	525	-37.004	54.567	-9.641	1.00	62.10

ATOM	4043	CE	MET	525	-36.881	56.093	-8.742	1.00	62.10
ATOM	4044	C	MET	525	-32.786	55.411	-12.099	1.00	99.73
ATOM	4045	O	MET	525	-31.698	54.833	-12.182	1.00	58.90
ATOM	4046	N	THR	526	-32.904	56.670	-11.665	1.00	91.61
ATOM	4047	CA	THR	526	-31.754	57.467	-11.208	1.00	84.77
ATOM	4048	CB	THR	526	-30.960	58.034	-12.419	1.00	61.57
ATOM	4049	OG1	THR	526	-30.675	56.983	-13.352	1.00	50.05
ATOM	4050	CG2	THR	526	-29.644	58.643	-11.967	1.00	55.58
ATOM	4051	C	THR	526	-32.216	58.648	-10.332	1.00	89.61
ATOM	4052	O	THR	526	-33.406	58.952	-10.291	1.00	78.86
ATOM	4053	N	ILE	527	-31.278	59.279	-9.617	1.00	63.66
ATOM	4054	CA	ILE	527	-31.537	60.446	-8.741	1.00	62.67
ATOM	4055	CB	ILE	527	-32.357	60.091	-7.468	1.00	85.14
ATOM	4056	CG2	ILE	527	-33.845	60.262	-7.718	1.00	84.12
ATOM	4057	CG1	ILE	527	-31.952	58.711	-6.935	1.00	77.58
ATOM	4058	CD1	ILE	527	-32.375	58.449	-5.509	1.00	79.16
ATOM	4059	C	ILE	527	-30.215	61.044	-8.254	1.00	67.50
ATOM	4060	O	ILE	527	-29.164	60.796	-8.853	1.00	96.46
ATOM	4061	N	SER	528	-30.280	61.835	-7.177	1.00	81.74
ATOM	4062	CA	SER	528	-29.095	62.452	-6.562	1.00	82.34
ATOM	4063	CB	SER	528	-28.311	63.290	-7.578	1.00	69.84
ATOM	4064	OG	SER	528	-27.089	63.748	-7.014	1.00	69.84
ATOM	4065	C	SER	528	-29.419	63.326	-5.350	1.00	80.41
ATOM	4066	O	SER	528	-28.685	63.338	-4.358	1.00	64.33
ATOM	4067	N	ARG	529	-30.530	64.046	-5.441	1.00	75.16
ATOM	4068	CA	ARG	529	-30.960	64.963	-4.395	1.00	76.42
ATOM	4069	CB	ARG	529	-31.871	66.020	-5.008	1.00	100.00
ATOM	4070	CG	ARG	529	-31.246	66.679	-6.225	1.00	100.00
ATOM	4071	CD	ARG	529	-32.074	67.830	-6.767	1.00	100.00
ATOM	4072	NE	ARG	529	-31.282	68.631	-7.697	1.00	99.35
ATOM	4073	CZ	ARG	529	-30.365	69.521	-7.324	1.00	98.99
ATOM	4074	NH1	ARG	529	-30.126	69.737	-6.036	1.00	96.23
ATOM	4075	NH2	ARG	529	-29.664	70.174	-8.240	1.00	100.00
ATOM	4076	C	ARG	529	-31.629	64.329	-3.186	1.00	76.02
ATOM	4077	O	ARG	529	-32.287	63.294	-3.296	1.00	100.00
ATOM	4078	N	GLY	530	-31.487	64.997	-2.042	1.00	100.00
ATOM	4079	CA	GLY	530	-32.054	64.509	-0.795	1.00	100.00
ATOM	4080	C	GLY	530	-33.540	64.731	-0.578	1.00	98.98
ATOM	4081	O	GLY	530	-34.069	64.401	0.489	1.00	83.97
ATOM	4082	N	GLY	531	-34.213	65.284	-1.584	1.00	86.65
ATOM	4083	CA	GLY	531	-35.640	65.534	-1.488	1.00	86.96
ATOM	4084	C	GLY	531	-36.305	65.428	-2.847	1.00	87.85
ATOM	4085	O	GLY	531	-37.514	65.625	-2.973	1.00	100.00
ATOM	4086	N	LEU	532	-35.503	65.118	-3.865	1.00	100.00
ATOM	4087	CA	LEU	532	-35.981	64.977	-5.237	1.00	100.00
ATOM	4088	CB	LEU	532	-34.949	65.564	-6.206	1.00	84.42
ATOM	4089	CG	LEU	532	-35.377	66.122	-7.568	1.00	84.97
ATOM	4090	CD1	LEU	532	-35.715	65.017	-8.562	1.00	84.97
ATOM	4091	CD2	LEU	532	-36.544	67.076	-7.373	1.00	84.97
ATOM	4092	C	LEU	532	-36.222	63.496	-5.536	1.00	100.00
ATOM	4093	O	LEU	532	-35.626	62.926	-6.454	1.00	71.35
ATOM	4094	N	MET	533	-37.089	62.878	-4.738	1.00	67.61
ATOM	4095	CA	MET	533	-37.420	61.469	-4.902	1.00	63.36
ATOM	4096	CB	MET	533	-38.282	60.963	-3.739	1.00	91.94
ATOM	4097	CG	MET	533	-39.490	61.829	-3.420	1.00	97.37
ATOM	4098	SD	MET	533	-40.698	60.996	-2.371	1.00	100.00
ATOM	4099	CE	MET	533	-42.230	61.298	-3.321	1.00	97.70

ATOM	4100	C	MET	533	-38.125	61.186	-6.219	1.00	58.13
ATOM	4101	O	MET	533	-39.358	61.209	-6.295	1.00	83.10
ATOM	4102	N	GLN	534	-37.331	60.934	-7.259	1.00	99.09
ATOM	4103	CA	GLN	534	-37.874	60.619	-8.574	1.00	100.00
ATOM	4104	CB	GLN	534	-36.756	60.262	-9.560	1.00	88.69
ATOM	4105	CG	GLN	534	-37.238	60.077	-11.004	1.00	100.00
ATOM	4106	CD	GLN	534	-36.326	59.185	-11.842	1.00	100.00
ATOM	4107	OE1	GLN	534	-36.675	58.043	-12.153	1.00	100.00
ATOM	4108	NE2	GLN	534	-35.164	59.707	-12.224	1.00	100.00
ATOM	4109	C	GLN	534	-38.790	59.415	-8.380	1.00	100.00
ATOM	4110	O	GLN	534	-38.480	58.498	-7.614	1.00	83.62
ATOM	4111	N	CYS	535	-39.926	59.428	-9.061	1.00	100.00
ATOM	4112	CA	CYS	535	-40.876	58.343	-8.922	1.00	100.00
ATOM	4113	C	CYS	535	-41.348	57.789	-10.255	1.00	100.00
ATOM	4114	O	CYS	535	-41.683	58.538	-11.176	1.00	93.53
ATOM	4115	CB	CYS	535	-42.074	58.817	-8.107	1.00	93.84
ATOM	4116	SG	CYS	535	-42.769	57.543	-7.018	1.00	100.00
ATOM	4117	N	GLU	536	-41.347	56.466	-10.354	1.00	79.92
ATOM	4118	CA	GLU	536	-41.797	55.788	-11.554	1.00	79.81
ATOM	4119	CB	GLU	536	-40.799	54.712	-11.968	1.00	66.15
ATOM	4120	CG	GLU	536	-40.686	54.524	-13.469	1.00	76.26
ATOM	4121	CD	GLU	536	-40.189	55.777	-14.179	1.00	87.66
ATOM	4122	OE1	GLU	536	-40.423	55.900	-15.404	1.00	87.66
ATOM	4123	OE2	GLU	536	-39.562	56.640	-13.518	1.00	87.66
ATOM	4124	C	GLU	536	-43.150	55.172	-11.235	1.00	79.42
ATOM	4125	O	GLU	536	-43.451	54.873	-10.075	1.00	63.23
ATOM	4126	N	GLU	537	-43.966	54.990	-12.265	1.00	91.06
ATOM	4127	CA	GLU	537	-45.297	54.439	-12.076	1.00	88.46
ATOM	4128	CB	GLU	537	-46.319	55.558	-12.204	1.00	84.35
ATOM	4129	CG	GLU	537	-47.729	55.157	-11.893	1.00	94.84
ATOM	4130	CD	GLU	537	-48.706	56.192	-12.378	1.00	99.26
ATOM	4131	OE1	GLU	537	-49.254	56.014	-13.487	1.00	99.26
ATOM	4132	OE2	GLU	537	-48.904	57.197	-11.666	1.00	99.26
ATOM	4133	C	GLU	537	-45.602	53.336	-13.075	1.00	82.45
ATOM	4134	O	GLU	537	-44.971	53.244	-14.130	1.00	68.85
ATOM	4135	N	LEU	538	-46.589	52.513	-12.737	1.00	49.29
ATOM	4136	CA	LEU	538	-46.998	51.396	-13.576	1.00	51.55
ATOM	4137	CB	LEU	538	-46.179	50.152	-13.229	1.00	47.77
ATOM	4138	CG	LEU	538	-44.802	49.993	-13.857	1.00	45.17
ATOM	4139	CD1	LEU	538	-44.148	48.758	-13.304	1.00	38.12
ATOM	4140	CD2	LEU	538	-44.938	49.885	-15.361	1.00	52.24
ATOM	4141	C	LEU	538	-48.473	51.053	-13.433	1.00	50.80
ATOM	4142	O	LEU	538	-49.164	51.534	-12.534	1.00	49.99
ATOM	4143	N	ILE	539	-48.936	50.192	-14.331	1.00	76.31
ATOM	4144	CA	ILE	539	-50.314	49.736	-14.332	1.00	74.77
ATOM	4145	CB	ILE	539	-51.096	50.172	-15.610	1.00	30.65
ATOM	4146	CG2	ILE	539	-52.521	50.509	-15.249	1.00	27.17
ATOM	4147	CG1	ILE	539	-50.439	51.379	-16.300	1.00	33.83
ATOM	4148	CD1	ILE	539	-49.194	51.041	-17.148	1.00	32.32
ATOM	4149	C	ILE	539	-50.267	48.215	-14.285	1.00	70.10
ATOM	4150	O	ILE	539	-49.451	47.576	-14.965	1.00	18.99
ATOM	4151	N	ALA	540	-51.119	47.643	-13.449	1.00	28.92
ATOM	4152	CA	ALA	540	-51.181	46.202	-13.305	1.00	25.62
ATOM	4153	CB	ALA	540	-50.485	45.762	-12.023	1.00	2.00
ATOM	4154	C	ALA	540	-52.634	45.813	-13.268	1.00	36.13
ATOM	4155	O	ALA	540	-53.454	46.509	-12.678	1.00	32.93
ATOM	4156	N	TYR	541	-52.961	44.725	-13.948	1.00	44.74

ATOM	4157	CA	TYR	541	-54.329	44.242	-13.977	1.00	44.84
ATOM	4158	CB	TYR	541	-54.748	43.913	-15.414	1.00	55.11
ATOM	4159	CG	TYR	541	-53.991	42.768	-16.070	1.00	68.28
ATOM	4160	CD1	TYR	541	-53.065	43.012	-17.084	1.00	72.13
ATOM	4161	CE1	TYR	541	-52.399	41.958	-17.724	1.00	76.14
ATOM	4162	CD2	TYR	541	-54.237	41.434	-15.710	1.00	74.70
ATOM	4163	CE2	TYR	541	-53.575	40.375	-16.339	1.00	79.54
ATOM	4164	CZ	TYR	541	-52.663	40.646	-17.347	1.00	80.80
ATOM	4165	OH	TYR	541	-52.009	39.611	-17.970	1.00	81.64
ATOM	4166	C	TYR	541	-54.438	43.007	-13.090	1.00	46.61
ATOM	4167	O	TYR	541	-53.450	42.571	-12.495	1.00	53.56
ATOM	4168	N	LEU	542	-55.633	42.432	-13.027	1.00	56.23
ATOM	4169	CA	LEU	542	-55.869	41.236	-12.233	1.00	45.05
ATOM	4170	CB	LEU	542	-56.719	41.592	-11.025	1.00	11.67
ATOM	4171	CG	LEU	542	-56.868	40.544	-9.923	1.00	24.84
ATOM	4172	CD1	LEU	542	-55.540	40.359	-9.214	1.00	24.62
ATOM	4173	CD2	LEU	542	-57.942	40.990	-8.924	1.00	32.04
ATOM	4174	C	LEU	542	-56.586	40.188	-13.092	1.00	46.43
ATOM	4175	O	LEU	542	-57.482	40.526	-13.883	1.00	34.36
ATOM	4176	N	ARG	543	-56.185	38.924	-12.937	1.00	74.09
ATOM	4177	CA	ARG	543	-56.767	37.803	-13.684	1.00	77.58
ATOM	4178	CB	ARG	543	-56.006	36.515	-13.381	1.00	26.60
ATOM	4179	CG	ARG	543	-54.590	36.476	-13.919	1.00	32.98
ATOM	4180	CD	ARG	543	-53.955	35.089	-13.728	1.00	45.49
ATOM	4181	NE	ARG	543	-52.884	34.847	-14.694	1.00	65.35
ATOM	4182	CZ	ARG	543	-51.937	33.922	-14.570	1.00	70.78
ATOM	4183	NH1	ARG	543	-51.906	33.125	-13.508	1.00	70.78
ATOM	4184	NH2	ARG	543	-51.011	33.802	-15.512	1.00	70.78
ATOM	4185	C	ARG	543	-58.267	37.572	-13.442	1.00	82.46
ATOM	4186	O	ARG	543	-58.783	37.806	-12.338	1.00	39.00
ATOM	4187	N	ASP	544	-58.945	37.067	-14.472	1.00	61.47
ATOM	4188	CA	ASP	544	-60.381	36.808	-14.410	1.00	61.58
ATOM	4189	CB	ASP	544	-60.918	36.471	-15.799	1.00	62.78
ATOM	4190	CG	ASP	544	-62.409	36.678	-15.905	1.00	75.64
ATOM	4191	OD1	ASP	544	-63.096	35.773	-16.422	1.00	85.10
ATOM	4192	OD2	ASP	544	-62.892	37.749	-15.473	1.00	78.95
ATOM	4193	C	ASP	544	-60.725	35.699	-13.421	1.00	59.74
ATOM	4194	O	ASP	544	-59.946	34.760	-13.246	1.00	50.51
ATOM	4195	N	GLU	545	-61.902	35.817	-12.798	1.00	50.34
ATOM	4196	CA	GLU	545	-62.398	34.870	-11.784	1.00	57.64
ATOM	4197	CB	GLU	545	-63.876	35.155	-11.458	1.00	60.14
ATOM	4198	CG	GLU	545	-64.189	36.551	-10.876	1.00	70.65
ATOM	4199	CD	GLU	545	-64.624	37.588	-11.926	1.00	74.57
ATOM	4200	OE1	GLU	545	-63.802	37.937	-12.806	1.00	70.34
ATOM	4201	OE2	GLU	545	-65.784	38.069	-11.857	1.00	71.37
ATOM	4202	C	GLU	545	-62.242	33.395	-12.153	1.00	61.13
ATOM	4203	O	GLU	545	-62.013	32.542	-11.291	1.00	61.80
ATOM	4204	N	SER	546	-62.362	33.112	-13.444	1.00	51.48
ATOM	4205	CA	SER	546	-62.251	31.760	-13.975	1.00	54.15
ATOM	4206	CB	SER	546	-63.174	31.631	-15.187	1.00	81.98
ATOM	4207	OG	SER	546	-62.998	32.728	-16.071	1.00	70.70
ATOM	4208	C	SER	546	-60.820	31.336	-14.351	1.00	56.29
ATOM	4209	O	SER	546	-60.608	30.648	-15.353	1.00	86.22
ATOM	4210	N	GLU	547	-59.843	31.734	-13.541	1.00	50.11
ATOM	4211	CA	GLU	547	-58.451	31.387	-13.803	1.00	45.53
ATOM	4212	CB	GLU	547	-57.692	32.572	-14.362	1.00	68.61
ATOM	4213	CG	GLU	547	-58.068	32.948	-15.750	1.00	80.05

ATOM	4214	CD	GLU	547	-57.309	34.161	-16.204	1.00	93.69
ATOM	4215	OE1	GLU	547	-57.884	35.268	-16.153	1.00	94.02
ATOM	4216	OE2	GLU	547	-56.127	34.012	-16.587	1.00	93.54
ATOM	4217	C	GLU	547	-57.731	30.939	-12.557	1.00	42.55
ATOM	4218	O	GLU	547	-56.661	30.345	-12.645	1.00	65.52
ATOM	4219	N	PHE	548	-58.311	31.214	-11.396	1.00	36.05
ATOM	4220	CA	PHE	548	-57.659	30.845	-10.151	1.00	32.92
ATOM	4221	CB	PHE	548	-56.496	31.822	-9.877	1.00	59.46
ATOM	4222	CG	PHE	548	-56.941	33.250	-9.617	1.00	50.06
ATOM	4223	CD1	PHE	548	-57.291	33.666	-8.326	1.00	44.82
ATOM	4224	CD2	PHE	548	-57.079	34.153	-10.667	1.00	43.21
ATOM	4225	CE1	PHE	548	-57.770	34.956	-8.088	1.00	33.41
ATOM	4226	CE2	PHE	548	-57.559	35.449	-10.435	1.00	39.42
ATOM	4227	CZ	PHE	548	-57.910	35.847	-9.146	1.00	37.59
ATOM	4228	C	PHE	548	-58.597	30.863	-8.946	1.00	32.39
ATOM	4229	O	PHE	548	-59.697	31.428	-8.995	1.00	58.26
ATOM	4230	N	ARG	549	-58.145	30.228	-7.867	1.00	55.02
ATOM	4231	CA	ARG	549	-58.883	30.222	-6.617	1.00	63.66
ATOM	4232	CB	ARG	549	-59.165	28.798	-6.138	1.00	88.51
ATOM	4233	CG	ARG	549	-60.451	28.684	-5.322	1.00	88.51
ATOM	4234	CD	ARG	549	-61.696	28.713	-6.213	1.00	88.51
ATOM	4235	NE	ARG	549	-61.808	29.924	-7.030	1.00	88.51
ATOM	4236	CZ	ARG	549	-62.394	29.975	-8.227	1.00	88.51
ATOM	4237	NH1	ARG	549	-62.929	28.886	-8.761	1.00	88.51
ATOM	4238	NH2	ARG	549	-62.438	31.116	-8.903	1.00	88.51
ATOM	4239	C	ARG	549	-57.904	30.935	-5.696	1.00	65.38
ATOM	4240	O	ARG	549	-56.712	30.618	-5.692	1.00	83.14
ATOM	4241	N	ASP	550	-58.392	31.928	-4.962	1.00	64.48
ATOM	4242	CA	ASP	550	-57.542	32.729	-4.082	1.00	67.58
ATOM	4243	CB	ASP	550	-57.733	34.208	-4.419	1.00	44.24
ATOM	4244	CG	ASP	550	-59.172	34.672	-4.213	1.00	44.99
ATOM	4245	OD1	ASP	550	-59.468	35.271	-3.150	1.00	31.37
ATOM	4246	OD2	ASP	550	-60.016	34.401	-5.097	1.00	54.47
ATOM	4247	C	ASP	550	-57.781	32.547	-2.590	1.00	74.80
ATOM	4248	O	ASP	550	-56.866	32.173	-1.844	1.00	56.38
ATOM	4249	N	LYS	551	-59.015	32.871	-2.184	1.00	100.00
ATOM	4250	CA	LYS	551	-59.521	32.837	-0.806	1.00	100.00
ATOM	4251	CB	LYS	551	-59.349	31.440	-0.184	1.00	78.00
ATOM	4252	CG	LYS	551	-59.834	30.276	-1.094	1.00	68.87
ATOM	4253	CD	LYS	551	-61.362	30.142	-1.250	1.00	67.62
ATOM	4254	CE	LYS	551	-62.047	31.355	-1.868	1.00	66.37
ATOM	4255	NZ	LYS	551	-62.416	32.344	-0.815	1.00	60.99
ATOM	4256	C	LYS	551	-58.912	33.967	0.040	1.00	100.00
ATOM	4257	O	LYS	551	-58.971	33.972	1.277	1.00	76.90
ATOM	4258	N	LEU	552	-58.424	34.972	-0.684	1.00	71.79
ATOM	4259	CA	LEU	552	-57.788	36.167	-0.147	1.00	69.57
ATOM	4260	CB	LEU	552	-58.757	36.998	0.697	1.00	95.83
ATOM	4261	CG	LEU	552	-59.343	38.198	-0.057	1.00	95.83
ATOM	4262	CD1	LEU	552	-58.215	39.116	-0.534	1.00	95.83
ATOM	4263	CD2	LEU	552	-60.169	37.716	-1.239	1.00	95.83
ATOM	4264	C	LEU	552	-56.454	35.994	0.556	1.00	62.57
ATOM	4265	O	LEU	552	-56.344	36.148	1.768	1.00	80.98
ATOM	4266	N	THR	553	-55.445	35.664	-0.242	1.00	65.58
ATOM	4267	CA	THR	553	-54.072	35.505	0.209	1.00	61.89
ATOM	4268	CB	THR	553	-53.449	34.213	-0.357	1.00	51.73
ATOM	4269	OG1	THR	553	-54.283	33.097	-0.028	1.00	61.08
ATOM	4270	CG2	THR	553	-52.071	33.981	0.220	1.00	57.03

ATOM	4271	C	THR	553	-53.424	36.724	-0.462	1.00	56.95
ATOM	4272	O	THR	553	-52.719	36.586	-1.471	1.00	43.43
ATOM	4273	N	PRO	554	-53.638	37.930	0.124	1.00	41.40
ATOM	4274	CD	PRO	554	-53.911	37.967	1.570	1.00	33.76
ATOM	4275	CA	PRO	554	-53.170	39.249	-0.309	1.00	31.49
ATOM	4276	CB	PRO	554	-52.606	39.826	0.977	1.00	34.23
ATOM	4277	CG	PRO	554	-53.603	39.408	1.941	1.00	32.54
ATOM	4278	C	PRO	554	-52.147	39.260	-1.418	1.00	25.03
ATOM	4279	O	PRO	554	-51.159	38.513	-1.394	1.00	26.62
ATOM	4280	N	ILE	555	-52.428	40.065	-2.435	1.00	6.89
ATOM	4281	CA	ILE	555	-51.509	40.188	-3.551	1.00	5.35
ATOM	4282	CB	ILE	555	-52.192	40.700	-4.854	1.00	7.42
ATOM	4283	CG2	ILE	555	-51.211	40.677	-5.992	1.00	2.00
ATOM	4284	CG1	ILE	555	-53.385	39.828	-5.244	1.00	6.24
ATOM	4285	CD1	ILE	555	-54.634	40.091	-4.422	1.00	18.84
ATOM	4286	C	ILE	555	-50.494	41.215	-3.066	1.00	8.47
ATOM	4287	O	ILE	555	-50.758	42.420	-3.092	1.00	27.84
ATOM	4288	N	THR	556	-49.379	40.727	-2.527	1.00	15.80
ATOM	4289	CA	THR	556	-48.321	41.596	-2.027	1.00	20.74
ATOM	4290	CB	THR	556	-47.569	40.967	-0.800	1.00	26.15
ATOM	4291	OG1	THR	556	-46.839	39.802	-1.213	1.00	39.98
ATOM	4292	CG2	THR	556	-48.549	40.567	0.305	1.00	14.00
ATOM	4293	C	THR	556	-47.335	41.930	-3.151	1.00	21.34
ATOM	4294	O	THR	556	-46.838	41.048	-3.855	1.00	28.17
ATOM	4295	N	ILE	557	-47.121	43.222	-3.356	1.00	30.16
ATOM	4296	CA	ILE	557	-46.202	43.697	-4.380	1.00	27.13
ATOM	4297	CB	ILE	557	-46.668	45.029	-4.983	1.00	26.09
ATOM	4298	CG2	ILE	557	-45.691	45.482	-6.046	1.00	28.48
ATOM	4299	CG1	ILE	557	-48.095	44.906	-5.530	1.00	30.07
ATOM	4300	CD1	ILE	557	-49.179	45.273	-4.527	1.00	33.50
ATOM	4301	C	ILE	557	-44.854	43.901	-3.705	1.00	23.69
ATOM	4302	O	ILE	557	-44.782	44.464	-2.614	1.00	10.51
ATOM	4303	N	PHE	558	-43.791	43.475	-4.370	1.00	13.61
ATOM	4304	CA	PHE	558	-42.458	43.570	-3.796	1.00	18.69
ATOM	4305	CB	PHE	558	-41.869	42.169	-3.680	1.00	39.57
ATOM	4306	CG	PHE	558	-40.628	42.093	-2.839	1.00	40.11
ATOM	4307	CD1	PHE	558	-40.642	42.538	-1.511	1.00	37.29
ATOM	4308	CD2	PHE	558	-39.462	41.519	-3.353	1.00	36.53
ATOM	4309	CE1	PHE	558	-39.520	42.411	-0.704	1.00	41.65
ATOM	4310	CE2	PHE	558	-38.334	41.382	-2.561	1.00	29.79
ATOM	4311	CZ	PHE	558	-38.362	41.827	-1.230	1.00	41.85
ATOM	4312	C	PHE	558	-41.491	44.483	-4.548	1.00	26.11
ATOM	4313	O	PHE	558	-41.514	44.556	-5.778	1.00	54.29
ATOM	4314	N	MET	559	-40.596	45.117	-3.788	1.00	52.12
ATOM	4315	CA	MET	559	-39.615	46.043	-4.335	1.00	51.84
ATOM	4316	CB	MET	559	-40.029	47.476	-4.004	1.00	36.45
ATOM	4317	CG	MET	559	-39.185	48.542	-4.679	1.00	40.95
ATOM	4318	SD	MET	559	-39.680	50.219	-4.216	1.00	38.75
ATOM	4319	CE	MET	559	-38.576	51.150	-5.247	1.00	51.38
ATOM	4320	C	MET	559	-38.192	45.809	-3.843	1.00	52.99
ATOM	4321	O	MET	559	-37.938	45.720	-2.637	1.00	26.68
ATOM	4322	N	GLU	560	-37.272	45.735	-4.802	1.00	48.04
ATOM	4323	CA	GLU	560	-35.845	45.546	-4.546	1.00	59.34
ATOM	4324	CB	GLU	560	-35.359	44.211	-5.123	1.00	72.35
ATOM	4325	CG	GLU	560	-35.824	42.957	-4.399	1.00	73.15
ATOM	4326	CD	GLU	560	-35.453	41.666	-5.135	1.00	72.54
ATOM	4327	OE1	GLU	560	-34.562	41.685	-6.017	1.00	67.81

ATOM	4328	OE2	GLU	560	-36.064	40.621	-4.828	1.00	70.66
ATOM	4329	C	GLU	560	-35.095	46.675	-5.256	1.00	63.11
ATOM	4330	O	GLU	560	-35.648	47.335	-6.140	1.00	70.94
ATOM	4331	N	TYR	561	-33.833	46.877	-4.884	1.00	56.03
ATOM	4332	CA	TYR	561	-32.996	47.913	-5.490	1.00	48.32
ATOM	4333	CB	TYR	561	-33.553	49.304	-5.181	1.00	53.81
ATOM	4334	CG	TYR	561	-33.741	49.578	-3.710	1.00	46.30
ATOM	4335	CD1	TYR	561	-32.691	50.074	-2.932	1.00	43.69
ATOM	4336	CE1	TYR	561	-32.862	50.330	-1.568	1.00	44.08
ATOM	4337	CD2	TYR	561	-34.973	49.343	-3.090	1.00	42.80
ATOM	4338	CE2	TYR	561	-35.157	49.597	-1.726	1.00	41.19
ATOM	4339	CZ	TYR	561	-34.098	50.091	-0.971	1.00	48.58
ATOM	4340	OH	TYR	561	-34.276	50.356	0.366	1.00	48.55
ATOM	4341	C	TYR	561	-31.566	47.816	-4.984	1.00	51.78
ATOM	4342	O	TYR	561	-31.326	47.266	-3.908	1.00	69.75
ATOM	4343	N	ARG	562	-30.625	48.366	-5.752	1.00	58.74
ATOM	4344	CA	ARG	562	-29.208	48.344	-5.376	1.00	61.28
ATOM	4345	CB	ARG	562	-28.619	46.936	-5.573	1.00	91.25
ATOM	4346	CG	ARG	562	-27.261	46.702	-4.892	1.00	95.37
ATOM	4347	CD	ARG	562	-26.484	45.564	-5.545	1.00	89.88
ATOM	4348	NE	ARG	562	-25.985	45.920	-6.876	1.00	86.44
ATOM	4349	CZ	ARG	562	-26.623	45.681	-8.021	1.00	92.79
ATOM	4350	NH1	ARG	562	-27.805	45.077	-8.026	1.00	89.85
ATOM	4351	NH2	ARG	562	-26.080	46.058	-9.171	1.00	95.37
ATOM	4352	C	ARG	562	-28.357	49.364	-6.142	1.00	57.72
ATOM	4353	O	ARG	562	-28.766	49.888	-7.179	1.00	69.30
ATOM	4354	N	LEU	563	-27.161	49.624	-5.619	1.00	58.91
ATOM	4355	CA	LEU	563	-26.221	50.560	-6.222	1.00	65.61
ATOM	4356	CB	LEU	563	-25.166	50.975	-5.192	1.00	40.51
ATOM	4357	CG	LEU	563	-24.864	52.467	-4.999	1.00	39.37
ATOM	4358	CD1	LEU	563	-24.857	53.209	-6.339	1.00	37.41
ATOM	4359	CD2	LEU	563	-25.897	53.079	-4.069	1.00	42.60
ATOM	4360	C	LEU	563	-25.507	49.939	-7.420	1.00	67.82
ATOM	4361	O	LEU	563	-25.765	48.797	-7.800	1.00	34.80
ATOM	4362	N	ASP	564	-24.604	50.717	-8.006	1.00	100.00
ATOM	4363	CA	ASP	564	-23.796	50.294	-9.146	1.00	100.00
ATOM	4364	CB	ASP	564	-24.522	50.575	-10.475	1.00	87.88
ATOM	4365	CG	ASP	564	-25.913	49.951	-10.544	1.00	87.33
ATOM	4366	OD1	ASP	564	-26.030	48.770	-10.941	1.00	87.25
ATOM	4367	OD2	ASP	564	-26.894	50.649	-10.209	1.00	81.67
ATOM	4368	C	ASP	564	-22.492	51.106	-9.094	1.00	100.00
ATOM	4369	O	ASP	564	-22.441	52.176	-8.470	1.00	88.91
ATOM	4370	N	TYR	565	-21.428	50.578	-9.694	1.00	100.00
ATOM	4371	CA	TYR	565	-20.163	51.306	-9.726	1.00	100.00
ATOM	4372	CB	TYR	565	-18.957	50.376	-9.909	1.00	100.00
ATOM	4373	CG	TYR	565	-19.085	49.334	-10.991	1.00	100.00
ATOM	4374	CD1	TYR	565	-19.046	47.977	-10.674	1.00	100.00
ATOM	4375	CE1	TYR	565	-19.135	47.004	-11.661	1.00	100.00
ATOM	4376	CD2	TYR	565	-19.229	49.697	-12.330	1.00	100.00
ATOM	4377	CE2	TYR	565	-19.321	48.733	-13.326	1.00	100.00
ATOM	4378	CZ	TYR	565	-19.278	47.387	-12.984	1.00	100.00
ATOM	4379	OH	TYR	565	-19.368	46.421	-13.963	1.00	99.98
ATOM	4380	C	TYR	565	-20.202	52.382	-10.807	1.00	100.00
ATOM	4381	O	TYR	565	-21.186	52.489	-11.552	1.00	100.00
ATOM	4382	N	ARG	566	-19.102	53.121	-10.934	1.00	100.00
ATOM	4383	CA	ARG	566	-19.003	54.243	-11.870	1.00	100.00
ATOM	4384	CB	ARG	566	-19.301	53.839	-13.319	1.00	100.00

ATOM	4385	CG	ARG	566	-19.163	54.993	-14.315	1.00	97.64
ATOM	4386	CD	ARG	566	-17.869	55.785	-14.107	1.00	96.49
ATOM	4387	NE	ARG	566	-16.676	55.049	-14.521	1.00	100.00
ATOM	4388	CZ	ARG	566	-16.157	55.090	-15.747	1.00	100.00
ATOM	4389	NH1	ARG	566	-16.725	55.834	-16.692	1.00	100.00
ATOM	4390	NH2	ARG	566	-15.066	54.388	-16.031	1.00	100.00
ATOM	4391	C	ARG	566	-20.009	55.262	-11.338	1.00	100.00
ATOM	4392	O	ARG	566	-20.959	55.674	-12.008	1.00	94.44
ATOM	4393	N	THR	567	-19.825	55.530	-10.052	1.00	100.00
ATOM	4394	CA	THR	567	-20.603	56.455	-9.237	1.00	100.00
ATOM	4395	CB	THR	567	-21.708	55.677	-8.438	1.00	100.00
ATOM	4396	OG1	THR	567	-22.680	55.132	-9.343	1.00	100.00
ATOM	4397	CG2	THR	567	-22.409	56.582	-7.442	1.00	100.00
ATOM	4398	C	THR	567	-19.524	56.980	-8.272	1.00	100.00
ATOM	4399	O	THR	567	-19.720	57.948	-7.525	1.00	98.64
ATOM	4400	N	ALA	568	-18.354	56.354	-8.387	1.00	100.00
ATOM	4401	CA	ALA	568	-17.177	56.627	-7.583	1.00	100.00
ATOM	4402	CB	ALA	568	-16.345	55.378	-7.522	1.00	95.65
ATOM	4403	C	ALA	568	-16.313	57.805	-8.039	1.00	100.00
ATOM	4404	O	ALA	568	-16.472	58.326	-9.149	1.00	95.65
ATOM	4405	N	ALA	569	-15.380	58.190	-7.165	1.00	100.00
ATOM	4406	CA	ALA	569	-14.445	59.290	-7.402	1.00	100.00
ATOM	4407	CB	ALA	569	-14.028	59.915	-6.070	1.00	94.95
ATOM	4408	C	ALA	569	-13.207	58.831	-8.185	1.00	100.00
ATOM	4409	O	ALA	569	-12.637	57.772	-7.897	1.00	85.15
ATOM	4410	N	ASP	570	-12.799	59.664	-9.148	1.00	100.00
ATOM	4411	CA	ASP	570	-11.644	59.450	-10.041	1.00	100.00
ATOM	4412	CB	ASP	570	-11.007	60.814	-10.385	1.00	100.00
ATOM	4413	CG	ASP	570	-9.902	60.716	-11.443	1.00	100.00
ATOM	4414	OD1	ASP	570	-8.716	60.562	-11.067	1.00	100.00
ATOM	4415	OD2	ASP	570	-10.220	60.822	-12.651	1.00	100.00
ATOM	4416	C	ASP	570	-10.559	58.484	-9.542	1.00	100.00
ATOM	4417	O	ASP	570	-10.421	57.367	-10.061	1.00	100.00
ATOM	4418	N	THR	571	-9.783	58.945	-8.557	1.00	100.00
ATOM	4419	CA	THR	571	-8.691	58.174	-7.951	1.00	100.00
ATOM	4420	CB	THR	571	-8.063	58.926	-6.726	1.00	100.00
ATOM	4421	OG1	THR	571	-7.584	60.216	-7.139	1.00	99.73
ATOM	4422	CG2	THR	571	-6.891	58.137	-6.146	1.00	100.00
ATOM	4423	C	THR	571	-9.203	56.803	-7.517	1.00	100.00
ATOM	4424	O	THR	571	-9.877	56.675	-6.483	1.00	100.00
ATOM	4425	N	THR	572	-8.899	55.803	-8.351	1.00	100.00
ATOM	4426	CA	THR	572	-9.299	54.412	-8.146	1.00	100.00
ATOM	4427	CB	THR	572	-8.372	53.675	-7.151	1.00	100.00
ATOM	4428	OG1	THR	572	-7.051	53.598	-7.701	1.00	100.00
ATOM	4429	CG2	THR	572	-8.883	52.255	-6.877	1.00	100.00
ATOM	4430	C	THR	572	-10.728	54.364	-7.651	1.00	100.00
ATOM	4431	O	THR	572	-10.971	54.356	-6.438	1.00	94.25
ATOM	4432	N	GLY	573	-11.652	54.403	-8.609	1.00	100.00
ATOM	4433	CA	GLY	573	-13.075	54.375	-8.327	1.00	100.00
ATOM	4434	C	GLY	573	-13.432	53.915	-6.931	1.00	93.04
ATOM	4435	O	GLY	573	-13.491	52.719	-6.658	1.00	68.76
ATOM	4436	N	LEU	574	-13.561	54.872	-6.020	1.00	56.00
ATOM	4437	CA	LEU	574	-13.911	54.544	-4.654	1.00	53.20
ATOM	4438	CB	LEU	574	-13.394	55.595	-3.674	1.00	46.35
ATOM	4439	CG	LEU	574	-13.148	54.968	-2.302	1.00	47.91
ATOM	4440	CD1	LEU	574	-11.890	54.106	-2.375	1.00	46.08
ATOM	4441	CD2	LEU	574	-13.021	56.030	-1.238	1.00	40.67

ATOM	4442	C	LEU	574	-15.422	54.419	-4.563	1.00	52.48
ATOM	4443	O	LEU	574	-16.142	55.408	-4.346	1.00	26.99
ATOM	4444	N	GLN	575	-15.880	53.188	-4.788	1.00	55.08
ATOM	4445	CA	GLN	575	-17.291	52.827	-4.759	1.00	56.58
ATOM	4446	CB	GLN	575	-17.472	51.357	-5.145	1.00	80.21
ATOM	4447	CG	GLN	575	-17.244	51.038	-6.606	1.00	94.03
ATOM	4448	CD	GLN	575	-17.550	49.587	-6.928	1.00	100.00
ATOM	4449	OE1	GLN	575	-16.643	48.782	-7.120	1.00	100.00
ATOM	4450	NE2	GLN	575	-18.838	49.246	-6.989	1.00	100.00
ATOM	4451	C	GLN	575	-17.929	53.037	-3.399	1.00	51.58
ATOM	4452	O	GLN	575	-17.338	52.733	-2.365	1.00	80.21
ATOM	4453	N	PRO	576	-19.142	53.594	-3.384	1.00	53.79
ATOM	4454	CD	PRO	576	-19.833	54.258	-4.504	1.00	39.76
ATOM	4455	CA	PRO	576	-19.839	53.824	-2.121	1.00	47.80
ATOM	4456	CB	PRO	576	-20.843	54.912	-2.492	1.00	41.26
ATOM	4457	CG	PRO	576	-21.176	54.583	-3.910	1.00	41.13
ATOM	4458	C	PRO	576	-20.524	52.540	-1.609	1.00	46.42
ATOM	4459	O	PRO	576	-20.384	51.452	-2.194	1.00	29.32
ATOM	4460	N	ILE	577	-21.250	52.674	-0.506	1.00	54.54
ATOM	4461	CA	ILE	577	-21.956	51.556	0.103	1.00	54.47
ATOM	4462	CB	ILE	577	-21.062	50.833	1.176	1.00	50.56
ATOM	4463	CG2	ILE	577	-20.458	51.844	2.152	1.00	38.17
ATOM	4464	CG1	ILE	577	-21.864	49.781	1.952	1.00	48.25
ATOM	4465	CD1	ILE	577	-22.522	48.727	1.083	1.00	51.84
ATOM	4466	C	ILE	577	-23.214	52.093	0.760	1.00	62.89
ATOM	4467	O	ILE	577	-23.225	53.210	1.283	1.00	62.61
ATOM	4468	N	LEU	578	-24.291	51.323	0.676	1.00	36.40
ATOM	4469	CA	LEU	578	-25.544	51.723	1.304	1.00	35.84
ATOM	4470	CB	LEU	578	-26.707	50.833	0.836	1.00	50.61
ATOM	4471	CG	LEU	578	-27.210	50.843	-0.617	1.00	48.64
ATOM	4472	CD1	LEU	578	-27.650	52.237	-0.984	1.00	55.16
ATOM	4473	CD2	LEU	578	-26.162	50.331	-1.602	1.00	52.55
ATOM	4474	C	LEU	578	-25.365	51.572	2.815	1.00	33.99
ATOM	4475	O	LEU	578	-24.548	50.766	3.269	1.00	25.07
ATOM	4476	N	ASN	579	-26.104	52.367	3.587	1.00	16.64
ATOM	4477	CA	ASN	579	-26.051	52.297	5.045	1.00	27.89
ATOM	4478	CB	ASN	579	-27.126	53.193	5.654	1.00	87.31
ATOM	4479	CG	ASN	579	-27.234	53.026	7.149	1.00	100.00
ATOM	4480	OD1	ASN	579	-28.234	52.516	7.660	1.00	100.00
ATOM	4481	ND2	ASN	579	-26.184	53.424	7.862	1.00	100.00
ATOM	4482	C	ASN	579	-26.269	50.847	5.498	1.00	30.81
ATOM	4483	O	ASN	579	-27.046	50.107	4.887	1.00	91.12
ATOM	4484	N	GLN	580	-25.584	50.443	6.563	1.00	59.08
ATOM	4485	CA	GLN	580	-25.703	49.079	7.063	1.00	55.13
ATOM	4486	CB	GLN	580	-24.719	48.824	8.221	1.00	59.75
ATOM	4487	CG	GLN	580	-24.804	49.795	9.411	1.00	63.37
ATOM	4488	CD	GLN	580	-23.863	49.417	10.559	1.00	70.58
ATOM	4489	OE1	GLN	580	-23.594	50.228	11.447	1.00	74.18
ATOM	4490	NE2	GLN	580	-23.366	48.181	10.544	1.00	69.56
ATOM	4491	C	GLN	580	-27.125	48.668	7.450	1.00	55.35
ATOM	4492	O	GLN	580	-27.619	47.637	6.987	1.00	55.36
ATOM	4493	N	PHE	581	-27.809	49.495	8.238	1.00	36.29
ATOM	4494	CA	PHE	581	-29.157	49.146	8.665	1.00	46.19
ATOM	4495	CB	PHE	581	-29.332	49.433	10.159	1.00	100.00
ATOM	4496	CG	PHE	581	-28.522	48.519	11.051	1.00	100.00
ATOM	4497	CD1	PHE	581	-27.749	49.036	12.091	1.00	100.00
ATOM	4498	CD2	PHE	581	-28.515	47.138	10.836	1.00	100.00

ATOM	4499	CE1	PHE	581	-26.981	48.195	12.904	1.00100.00
ATOM	4500	CE2	PHE	581	-27.752	46.290	11.644	1.00100.00
ATOM	4501	CZ	PHE	581	-26.983	46.821	12.678	1.00100.00
ATOM	4502	C	PHE	581	-30.322	49.700	7.841	1.00 49.41
ATOM	4503	O	PHE	581	-31.312	50.191	8.391	1.00 98.42
ATOM	4504	N	THR	582	-30.203	49.602	6.517	1.00 68.19
ATOM	4505	CA	THR	582	-31.255	50.048	5.608	1.00 73.33
ATOM	4506	CB	THR	582	-30.867	51.293	4.780	1.00 77.55
ATOM	4507	OG1	THR	582	-29.681	51.021	4.021	1.00 83.68
ATOM	4508	CG2	THR	582	-30.664	52.505	5.681	1.00 76.71
ATOM	4509	C	THR	582	-31.555	48.904	4.654	1.00 69.62
ATOM	4510	O	THR	582	-30.681	48.467	3.896	1.00 69.51
ATOM	4511	N	PRO	583	-32.790	48.377	4.714	1.00 48.07
ATOM	4512	CD	PRO	583	-33.808	48.790	5.700	1.00 51.24
ATOM	4513	CA	PRO	583	-33.285	47.268	3.886	1.00 33.64
ATOM	4514	CB	PRO	583	-34.616	46.918	4.550	1.00 45.32
ATOM	4515	CG	PRO	583	-35.069	48.229	5.117	1.00 48.11
ATOM	4516	C	PRO	583	-33.479	47.640	2.426	1.00 22.13
ATOM	4517	O	PRO	583	-33.937	48.736	2.118	1.00 36.11
ATOM	4518	N	ALA	584	-33.108	46.738	1.524	1.00 22.56
ATOM	4519	CA	ALA	584	-33.273	46.991	0.093	1.00 30.97
ATOM	4520	CB	ALA	584	-32.159	46.327	-0.699	1.00 15.79
ATOM	4521	C	ALA	584	-34.631	46.467	-0.358	1.00 35.49
ATOM	4522	O	ALA	584	-34.919	46.370	-1.560	1.00 19.71
ATOM	4523	N	ASN	585	-35.473	46.153	0.623	1.00 32.45
ATOM	4524	CA	ASN	585	-36.789	45.623	0.351	1.00 30.17
ATOM	4525	CB	ASN	585	-36.844	44.157	0.705	1.00 42.32
ATOM	4526	CG	ASN	585	-35.832	43.375	-0.041	1.00 55.45
ATOM	4527	OD1	ASN	585	-35.723	43.492	-1.262	1.00 69.83
ATOM	4528	ND2	ASN	585	-35.031	42.620	0.692	1.00 71.94
ATOM	4529	C	ASN	585	-37.906	46.308	1.062	1.00 31.38
ATOM	4530	O	ASN	585	-37.850	46.561	2.265	1.00 47.03
ATOM	4531	N	ILE	586	-38.942	46.575	0.287	1.00 23.49
ATOM	4532	CA	ILE	586	-40.157	47.173	0.786	1.00 19.45
ATOM	4533	CB	ILE	586	-40.178	48.711	0.583	1.00 20.87
ATOM	4534	CG2	ILE	586	-40.145	49.073	-0.894	1.00 17.47
ATOM	4535	CG1	ILE	586	-41.376	49.321	1.312	1.00 21.57
ATOM	4536	CD1	ILE	586	-41.435	48.923	2.792	1.00 21.55
ATOM	4537	C	ILE	586	-41.225	46.452	-0.031	1.00 18.90
ATOM	4538	O	ILE	586	-40.979	46.086	-1.190	1.00 15.39
ATOM	4539	N	SER	587	-42.359	46.156	0.608	1.00 33.71
ATOM	4540	CA	SER	587	-43.458	45.450	-0.050	1.00 41.45
ATOM	4541	CB	SER	587	-43.201	43.942	-0.040	1.00 66.21
ATOM	4542	OG	SER	587	-42.853	43.489	1.255	1.00 77.00
ATOM	4543	C	SER	587	-44.818	45.740	0.565	1.00 41.69
ATOM	4544	O	SER	587	-44.979	45.706	1.785	1.00 64.55
ATOM	4545	N	ARG	588	-45.794	46.009	-0.301	1.00 71.40
ATOM	4546	CA	ARG	588	-47.161	46.312	0.117	1.00 72.86
ATOM	4547	CB	ARG	588	-47.626	47.634	-0.501	1.00 62.10
ATOM	4548	CG	ARG	588	-47.060	48.866	0.168	1.00 66.78
ATOM	4549	CD	ARG	588	-47.463	48.915	1.635	1.00 74.58
ATOM	4550	NE	ARG	588	-46.908	50.083	2.312	1.00 78.72
ATOM	4551	CZ	ARG	588	-45.612	50.275	2.533	1.00 79.67
ATOM	4552	NH1	ARG	588	-44.724	49.373	2.135	1.00 84.20
ATOM	4553	NH2	ARG	588	-45.200	51.387	3.126	1.00 87.73
ATOM	4554	C	ARG	588	-48.136	45.203	-0.261	1.00 70.27
ATOM	4555	O	ARG	588	-47.799	44.323	-1.052	1.00 53.72

ATOM	4556	N	GLN	589	-49.356	45.282	0.277	1.00	28.24
ATOM	4557	CA	GLN	589	-50.396	44.283	0.017	1.00	23.39
ATOM	4558	CB	GLN	589	-50.770	43.575	1.316	1.00	45.01
ATOM	4559	CG	GLN	589	-49.593	43.065	2.098	1.00	52.03
ATOM	4560	CD	GLN	589	-49.983	41.987	3.070	1.00	53.31
ATOM	4561	OE1	GLN	589	-51.038	42.058	3.697	1.00	48.73
ATOM	4562	NE2	GLN	589	-49.141	40.966	3.192	1.00	57.32
ATOM	4563	C	GLN	589	-51.692	44.774	-0.638	1.00	20.62
ATOM	4564	O	GLN	589	-52.237	45.822	-0.278	1.00	46.87
ATOM	4565	N	ALA	590	-52.210	43.959	-1.557	1.00	41.60
ATOM	4566	CA	ALA	590	-53.466	44.226	-2.259	1.00	40.08
ATOM	4567	CB	ALA	590	-53.292	44.003	-3.751	1.00	2.00
ATOM	4568	C	ALA	590	-54.527	43.272	-1.700	1.00	44.82
ATOM	4569	O	ALA	590	-54.198	42.248	-1.105	1.00	2.00
ATOM	4570	N	HIS	591	-55.798	43.597	-1.889	1.00	13.43
ATOM	4571	CA	HIS	591	-56.870	42.747	-1.371	1.00	17.09
ATOM	4572	CB	HIS	591	-57.256	43.171	0.044	1.00	33.36
ATOM	4573	CG	HIS	591	-56.292	42.737	1.099	1.00	45.22
ATOM	4574	CD2	HIS	591	-56.284	41.642	1.908	1.00	45.57
ATOM	4575	ND1	HIS	591	-55.219	43.503	1.494	1.00	52.52
ATOM	4576	CE1	HIS	591	-54.596	42.912	2.502	1.00	54.88
ATOM	4577	NE2	HIS	591	-55.229	41.782	2.767	1.00	50.03
ATOM	4578	C	HIS	591	-58.142	42.680	-2.215	1.00	18.35
ATOM	4579	O	HIS	591	-58.956	43.604	-2.201	1.00	39.63
ATOM	4580	N	ILE	592	-58.320	41.563	-2.917	1.00	14.07
ATOM	4581	CA	ILE	592	-59.505	41.317	-3.737	1.00	11.27
ATOM	4582	CB	ILE	592	-59.522	39.869	-4.233	1.00	17.87
ATOM	4583	CG2	ILE	592	-60.906	39.494	-4.721	1.00	29.16
ATOM	4584	CG1	ILE	592	-58.482	39.674	-5.325	1.00	24.64
ATOM	4585	CD1	ILE	592	-58.341	38.248	-5.767	1.00	15.55
ATOM	4586	C	ILE	592	-60.722	41.488	-2.847	1.00	10.39
ATOM	4587	O	ILE	592	-60.794	40.891	-1.777	1.00	24.58
ATOM	4588	N	LEU	593	-61.675	42.300	-3.280	1.00	42.29
ATOM	4589	CA	LEU	593	-62.871	42.518	-2.482	1.00	42.69
ATOM	4590	CB	LEU	593	-63.790	43.554	-3.130	1.00	50.58
ATOM	4591	CG	LEU	593	-64.896	44.085	-2.209	1.00	56.27
ATOM	4592	CD1	LEU	593	-65.336	45.444	-2.702	1.00	59.10
ATOM	4593	CD2	LEU	593	-66.086	43.125	-2.106	1.00	62.93
ATOM	4594	C	LEU	593	-63.599	41.200	-2.330	1.00	40.98
ATOM	4595	O	LEU	593	-63.826	40.491	-3.312	1.00	43.77
ATOM	4596	N	LEU	594	-63.946	40.882	-1.086	1.00	17.48
ATOM	4597	CA	LEU	594	-64.651	39.647	-0.759	1.00	21.32
ATOM	4598	CB	LEU	594	-63.682	38.473	-0.708	1.00	29.71
ATOM	4599	CG	LEU	594	-64.370	37.118	-0.689	1.00	20.16
ATOM	4600	CD1	LEU	594	-65.088	36.923	-2.020	1.00	26.73
ATOM	4601	CD2	LEU	594	-63.341	36.038	-0.470	1.00	20.66
ATOM	4602	C	LEU	594	-65.366	39.740	0.571	1.00	24.42
ATOM	4603	O	LEU	594	-64.747	39.953	1.612	1.00	45.64
ATOM	4604	N	ASP	595	-66.676	39.552	0.513	1.00	25.02
ATOM	4605	CA	ASP	595	-67.540	39.602	1.679	1.00	36.40
ATOM	4606	CB	ASP	595	-67.061	38.630	2.755	1.00	51.14
ATOM	4607	CG	ASP	595	-67.256	37.194	2.353	1.00	52.45
ATOM	4608	OD1	ASP	595	-66.267	36.549	1.949	1.00	56.03
ATOM	4609	OD2	ASP	595	-68.409	36.720	2.420	1.00	45.69
ATOM	4610	C	ASP	595	-67.729	40.992	2.263	1.00	37.96
ATOM	4611	O	ASP	595	-68.371	41.140	3.306	1.00	48.23
ATOM	4612	N	CYS	596	-67.192	42.014	1.597	1.00	68.06

ATOM	4613	CA	CYS	596	-67.341	43.381	2.093	1.00	82.67
ATOM	4614	C	CYS	596	-68.789	43.836	1.925	1.00	88.17
ATOM	4615	O	CYS	596	-69.306	44.599	2.741	1.00	74.15
ATOM	4616	CB	CYS	596	-66.365	44.333	1.397	1.00	68.28
ATOM	4617	SG	CYS	596	-64.607	44.017	1.786	1.00	69.82
ATOM	4618	N	GLY	597	-69.422	43.339	0.861	1.00	97.30
ATOM	4619	CA	GLY	597	-70.819	43.611	0.549	1.00	97.59
ATOM	4620	C	GLY	597	-71.469	44.973	0.725	1.00	96.01
ATOM	4621	O	GLY	597	-71.302	45.639	1.742	1.00	67.77
ATOM	4622	N	GLU	598	-72.298	45.326	-0.255	1.00	96.46
ATOM	4623	CA	GLU	598	-73.044	46.584	-0.285	1.00	94.83
ATOM	4624	CB	GLU	598	-73.934	46.723	0.954	1.00	100.00
ATOM	4625	CG	GLU	598	-75.023	45.669	1.044	1.00	100.00
ATOM	4626	CD	GLU	598	-75.778	45.711	2.357	1.00	100.00
ATOM	4627	OE1	GLU	598	-75.141	45.546	3.426	1.00	100.00
ATOM	4628	OE2	GLU	598	-77.015	45.897	2.313	1.00	100.00
ATOM	4629	C	GLU	598	-72.167	47.818	-0.467	1.00	93.15
ATOM	4630	O	GLU	598	-71.861	48.195	-1.601	1.00	100.00
ATOM	4631	N	ASP	599	-71.763	48.442	0.637	1.00	64.65
ATOM	4632	CA	ASP	599	-70.925	49.638	0.575	1.00	52.98
ATOM	4633	CB	ASP	599	-70.834	50.299	1.948	1.00	73.75
ATOM	4634	CG	ASP	599	-70.468	49.323	3.039	1.00	69.89
ATOM	4635	OD1	ASP	599	-71.394	48.802	3.688	1.00	58.90
ATOM	4636	OD2	ASP	599	-69.266	49.073	3.251	1.00	67.80
ATOM	4637	C	ASP	599	-69.525	49.386	0.018	1.00	47.83
ATOM	4638	O	ASP	599	-68.771	50.331	-0.228	1.00	69.76
ATOM	4639	N	ASN	600	-69.198	48.112	-0.196	1.00	85.66
ATOM	4640	CA	ASN	600	-67.902	47.688	-0.732	1.00	87.98
ATOM	4641	CB	ASN	600	-67.597	48.405	-2.049	1.00	90.56
ATOM	4642	CG	ASN	600	-68.682	48.201	-3.084	1.00	95.79
ATOM	4643	OD1	ASN	600	-69.297	47.134	-3.154	1.00	95.79
ATOM	4644	ND2	ASN	600	-68.934	49.229	-3.885	1.00	95.79
ATOM	4645	C	ASN	600	-66.765	47.886	0.261	1.00	89.03
ATOM	4646	O	ASN	600	-65.628	47.471	0.019	1.00	87.47
ATOM	4647	N	VAL	601	-67.074	48.557	1.364	1.00	72.77
ATOM	4648	CA	VAL	601	-66.103	48.792	2.414	1.00	68.40
ATOM	4649	CB	VAL	601	-66.330	50.159	3.104	1.00	42.08
ATOM	4650	CG1	VAL	601	-65.445	50.299	4.338	1.00	48.86
ATOM	4651	CG2	VAL	601	-66.040	51.282	2.127	1.00	44.86
ATOM	4652	C	VAL	601	-66.299	47.652	3.405	1.00	67.15
ATOM	4653	O	VAL	601	-67.419	47.150	3.581	1.00	32.79
ATOM	4654	N	CYS	602	-65.183	47.193	3.964	1.00	20.05
ATOM	4655	CA	CYS	602	-65.156	46.118	4.932	1.00	11.14
ATOM	4656	C	CYS	602	-64.872	46.718	6.303	1.00	8.64
ATOM	4657	O	CYS	602	-63.759	46.601	6.813	1.00	31.95
ATOM	4658	CB	CYS	602	-64.049	45.134	4.563	1.00	37.15
ATOM	4659	SG	CYS	602	-64.610	43.603	3.771	1.00	52.42
ATOM	4660	N	LYS	603	-65.864	47.379	6.887	1.00	2.40
ATOM	4661	CA	LYS	603	-65.716	47.994	8.210	1.00	6.54
ATOM	4662	CB	LYS	603	-66.595	49.249	8.297	1.00	60.80
ATOM	4663	CG	LYS	603	-67.938	49.167	7.561	1.00	76.25
ATOM	4664	CD	LYS	603	-68.459	50.563	7.226	1.00	79.08
ATOM	4665	CE	LYS	603	-69.881	50.526	6.712	1.00	81.65
ATOM	4666	NZ	LYS	603	-70.816	50.038	7.760	1.00	84.89
ATOM	4667	C	LYS	603	-65.984	47.029	9.385	1.00	10.05
ATOM	4668	O	LYS	603	-67.131	46.642	9.636	1.00	52.80
ATOM	4669	N	PRO	604	-64.915	46.611	10.103	1.00	40.07

ATOM	4670	CD	PRO	604	-63.507	46.815	9.702	1.00	14.18
ATOM	4671	CA	PRO	604	-64.996	45.687	11.247	1.00	40.36
ATOM	4672	CB	PRO	604	-63.629	45.004	11.211	1.00	22.24
ATOM	4673	CG	PRO	604	-62.731	46.116	10.804	1.00	19.99
ATOM	4674	C	PRO	604	-65.293	46.260	12.641	1.00	36.85
ATOM	4675	O	PRO	604	-65.323	47.470	12.846	1.00	23.15
ATOM	4676	N	LYS	605	-65.533	45.356	13.588	1.00	25.27
ATOM	4677	CA	LYS	605	-65.801	45.706	14.986	1.00	34.87
ATOM	4678	CB	LYS	605	-67.264	45.410	15.340	1.00	70.74
ATOM	4679	CG	LYS	605	-67.589	45.473	16.831	1.00	80.51
ATOM	4680	CD	LYS	605	-69.061	45.161	17.091	1.00	80.06
ATOM	4681	CE	LYS	605	-69.364	44.921	18.579	1.00	79.34
ATOM	4682	NZ	LYS	605	-69.052	43.536	19.068	1.00	57.49
ATOM	4683	C	LYS	605	-64.838	44.876	15.857	1.00	37.83
ATOM	4684	O	LYS	605	-65.068	43.695	16.109	1.00	70.18
ATOM	4685	N	LEU	606	-63.764	45.512	16.317	1.00	63.25
ATOM	4686	CA	LEU	606	-62.727	44.837	17.105	1.00	59.89
ATOM	4687	CB	LEU	606	-61.356	45.225	16.554	1.00	39.91
ATOM	4688	CG	LEU	606	-61.256	45.222	15.030	1.00	36.56
ATOM	4689	CD1	LEU	606	-60.251	46.270	14.551	1.00	31.45
ATOM	4690	CD2	LEU	606	-60.918	43.818	14.553	1.00	34.07
ATOM	4691	C	LEU	606	-62.749	45.117	18.603	1.00	64.60
ATOM	4692	O	LEU	606	-63.013	46.244	19.024	1.00	53.00
ATOM	4693	N	GLU	607	-62.399	44.105	19.398	1.00	73.36
ATOM	4694	CA	GLU	607	-62.372	44.247	20.854	1.00	81.42
ATOM	4695	CB	GLU	607	-63.778	44.123	21.456	1.00	72.45
ATOM	4696	CG	GLU	607	-64.525	42.840	21.116	1.00	82.40
ATOM	4697	CD	GLU	607	-65.272	42.922	19.796	1.00	83.44
ATOM	4698	OE1	GLU	607	-64.702	42.541	18.752	1.00	83.44
ATOM	4699	OE2	GLU	607	-66.438	43.367	19.808	1.00	83.44
ATOM	4700	C	GLU	607	-61.431	43.306	21.592	1.00	81.11
ATOM	4701	O	GLU	607	-61.459	42.092	21.406	1.00	58.28
ATOM	4702	N	VAL	608	-60.601	43.896	22.442	1.00	76.07
ATOM	4703	CA	VAL	608	-59.648	43.156	23.254	1.00	73.72
ATOM	4704	CB	VAL	608	-58.291	43.887	23.342	1.00	52.54
ATOM	4705	CG1	VAL	608	-57.342	43.334	22.306	1.00	50.94
ATOM	4706	CG2	VAL	608	-58.473	45.395	23.147	1.00	51.99
ATOM	4707	C	VAL	608	-60.215	43.014	24.656	1.00	75.07
ATOM	4708	O	VAL	608	-61.260	43.583	24.960	1.00	56.03
ATOM	4709	N	SER	609	-59.531	42.247	25.501	1.00	53.58
ATOM	4710	CA	SER	609	-59.957	42.032	26.885	1.00	58.21
ATOM	4711	CB	SER	609	-61.348	41.388	26.937	1.00	71.75
ATOM	4712	OG	SER	609	-61.758	41.182	28.279	1.00	75.80
ATOM	4713	C	SER	609	-58.975	41.146	27.634	1.00	57.88
ATOM	4714	O	SER	609	-58.466	40.173	27.082	1.00	62.26
ATOM	4715	N	VAL	610	-58.724	41.477	28.895	1.00	71.20
ATOM	4716	CA	VAL	610	-57.817	40.690	29.722	1.00	72.53
ATOM	4717	CB	VAL	610	-56.396	41.273	29.695	1.00	65.97
ATOM	4718	CG1	VAL	610	-56.408	42.707	30.165	1.00	69.83
ATOM	4719	CG2	VAL	610	-55.455	40.407	30.515	1.00	71.96
ATOM	4720	C	VAL	610	-58.378	40.538	31.147	1.00	75.40
ATOM	4721	O	VAL	610	-58.713	41.522	31.812	1.00	76.70
ATOM	4722	N	ASP	611	-58.468	39.285	31.590	1.00	53.71
ATOM	4723	CA	ASP	611	-59.046	38.901	32.880	1.00	55.50
ATOM	4724	CB	ASP	611	-59.285	37.389	32.904	1.00	100.00
ATOM	4725	CG	ASP	611	-60.553	36.985	32.170	1.00	100.00
ATOM	4726	OD1	ASP	611	-61.609	36.873	32.835	1.00	100.00

ATOM	4727	OD2	ASP	611	-60.492	36.775	30.936	1.00100.00
ATOM	4728	C	ASP	611	-58.457	39.321	34.223	1.00 55.79
ATOM	4729	O	ASP	611	-59.014	38.963	35.267	1.00100.00
ATOM	4730	N	SER	612	-57.347	40.058	34.209	1.00100.00
ATOM	4731	CA	SER	612	-56.693	40.528	35.444	1.00100.00
ATOM	4732	CB	SER	612	-57.606	41.517	36.201	1.00 98.78
ATOM	4733	OG	SER	612	-56.915	42.194	37.244	1.00 98.78
ATOM	4734	C	SER	612	-56.233	39.391	36.373	1.00100.00
ATOM	4735	O	SER	612	-55.998	39.601	37.571	1.00 98.78
ATOM	4736	N	ASP	613	-56.082	38.198	35.798	1.00100.00
ATOM	4737	CA	ASP	613	-55.651	37.014	36.535	1.00100.00
ATOM	4738	CB	ASP	613	-55.465	35.843	35.569	1.00100.00
ATOM	4739	CG	ASP	613	-54.862	34.632	36.239	1.00100.00
ATOM	4740	OD1	ASP	613	-55.548	34.022	37.086	1.00100.00
ATOM	4741	OD2	ASP	613	-53.694	34.306	35.931	1.00100.00
ATOM	4742	C	ASP	613	-54.353	37.277	37.297	1.00100.00
ATOM	4743	O	ASP	613	-53.456	37.950	36.783	1.00100.00
ATOM	4744	N	GLN	614	-54.264	36.732	38.510	1.00 81.80
ATOM	4745	CA	GLN	614	-53.094	36.903	39.375	1.00 86.85
ATOM	4746	CB	GLN	614	-51.850	36.257	38.748	1.00100.00
ATOM	4747	CG	GLN	614	-50.620	36.265	39.651	1.00100.00
ATOM	4748	CD	GLN	614	-50.883	35.641	41.023	1.00100.00
ATOM	4749	OE1	GLN	614	-51.584	34.632	41.141	1.00100.00
ATOM	4750	NE2	GLN	614	-50.314	36.243	42.063	1.00100.00
ATOM	4751	C	GLN	614	-52.879	38.396	39.608	1.00 86.97
ATOM	4752	O	GLN	614	-52.114	39.045	38.895	1.00100.00
ATOM	4753	N	LYS	615	-53.546	38.924	40.628	1.00 98.79
ATOM	4754	CA	LYS	615	-53.491	40.347	40.939	1.00 98.79
ATOM	4755	CB	LYS	615	-54.691	40.731	41.806	1.00 88.71
ATOM	4756	CG	LYS	615	-56.035	40.527	41.119	1.00 85.23
ATOM	4757	CD	LYS	615	-57.165	41.277	41.815	1.00 85.28
ATOM	4758	CE	LYS	615	-57.416	40.776	43.231	1.00 88.71
ATOM	4759	NZ	LYS	615	-56.343	41.157	44.191	1.00 88.71
ATOM	4760	C	LYS	615	-52.221	40.968	41.522	1.00 98.79
ATOM	4761	O	LYS	615	-52.165	42.188	41.689	1.00 88.71
ATOM	4762	N	LYS	616	-51.182	40.179	41.772	1.00 92.40
ATOM	4763	CA	LYS	616	-49.974	40.760	42.358	1.00 83.13
ATOM	4764	CB	LYS	616	-50.054	40.737	43.896	1.00 82.10
ATOM	4765	CG	LYS	616	-50.192	39.345	44.519	1.00 89.27
ATOM	4766	CD	LYS	616	-51.575	38.757	44.252	1.00100.00
ATOM	4767	CE	LYS	616	-51.681	37.297	44.655	1.00100.00
ATOM	4768	NZ	LYS	616	-52.975	36.716	44.184	1.00100.00
ATOM	4769	C	LYS	616	-48.606	40.242	41.929	1.00 74.70
ATOM	4770	O	LYS	616	-48.428	39.079	41.564	1.00 75.92
ATOM	4771	N	ILE	617	-47.643	41.154	41.979	1.00 18.94
ATOM	4772	CA	ILE	617	-46.257	40.876	41.667	1.00 15.91
ATOM	4773	CB	ILE	617	-45.829	41.456	40.312	1.00 8.46
ATOM	4774	CG2	ILE	617	-46.667	40.872	39.215	1.00 2.00
ATOM	4775	CG1	ILE	617	-45.912	42.978	40.317	1.00 18.85
ATOM	4776	CD1	ILE	617	-45.424	43.599	39.039	1.00 25.11
ATOM	4777	C	ILE	617	-45.458	41.547	42.783	1.00 26.14
ATOM	4778	O	ILE	617	-45.750	42.681	43.167	1.00 36.19
ATOM	4779	N	TYR	618	-44.475	40.832	43.325	1.00 26.43
ATOM	4780	CA	TYR	618	-43.664	41.359	44.412	1.00 23.84
ATOM	4781	CB	TYR	618	-43.185	40.229	45.309	1.00 44.87
ATOM	4782	CG	TYR	618	-44.328	39.361	45.731	1.00 53.91
ATOM	4783	CD1	TYR	618	-44.635	38.204	45.027	1.00 62.03

ATOM	4784	CE1	TYR	618	-45.749	37.445	45.353	1.00	71.49
ATOM	4785	CD2	TYR	618	-45.157	39.736	46.782	1.00	55.68
ATOM	4786	CE2	TYR	618	-46.273	38.986	47.117	1.00	62.99
ATOM	4787	CZ	TYR	618	-46.563	37.841	46.399	1.00	69.71
ATOM	4788	OH	TYR	618	-47.669	37.093	46.715	1.00	74.60
ATOM	4789	C	TYR	618	-42.499	42.153	43.903	1.00	23.48
ATOM	4790	O	TYR	618	-42.071	41.994	42.757	1.00	40.43
ATOM	4791	N	ILE	619	-41.992	43.014	44.774	1.00	45.74
ATOM	4792	CA	ILE	619	-40.869	43.881	44.452	1.00	46.35
ATOM	4793	CB	ILE	619	-41.039	45.221	45.184	1.00	28.77
ATOM	4794	CG2	ILE	619	-39.863	46.141	44.888	1.00	37.09
ATOM	4795	CG1	ILE	619	-42.378	45.852	44.775	1.00	25.66
ATOM	4796	CD1	ILE	619	-42.803	47.050	45.600	1.00	24.96
ATOM	4797	C	ILE	619	-39.548	43.222	44.845	1.00	49.43
ATOM	4798	O	ILE	619	-39.315	42.982	46.016	1.00	33.14
ATOM	4799	N	GLY	620	-38.709	42.891	43.865	1.00	50.21
ATOM	4800	CA	GLY	620	-37.430	42.261	44.167	1.00	56.84
ATOM	4801	C	GLY	620	-36.959	41.256	43.130	1.00	68.95
ATOM	4802	O	GLY	620	-35.929	41.452	42.478	1.00	81.57
ATOM	4803	N	ASP	621	-37.700	40.160	42.997	1.00	93.37
ATOM	4804	CA	ASP	621	-37.358	39.124	42.029	1.00	100.00
ATOM	4805	CB	ASP	621	-37.602	37.713	42.609	1.00	99.56
ATOM	4806	CG	ASP	621	-39.080	37.427	42.925	1.00	99.56
ATOM	4807	OD1	ASP	621	-39.389	37.142	44.100	1.00	99.56
ATOM	4808	OD2	ASP	621	-39.926	37.433	42.003	1.00	99.56
ATOM	4809	C	ASP	621	-38.119	39.291	40.720	1.00	99.94
ATOM	4810	O	ASP	621	-38.925	40.215	40.560	1.00	94.73
ATOM	4811	N	ASP	622	-37.852	38.384	39.787	1.00	73.49
ATOM	4812	CA	ASP	622	-38.519	38.395	38.500	1.00	70.48
ATOM	4813	CB	ASP	622	-37.711	37.595	37.471	1.00	95.35
ATOM	4814	CG	ASP	622	-36.349	38.214	37.176	1.00	100.00
ATOM	4815	OD1	ASP	622	-35.505	37.518	36.571	1.00	98.45
ATOM	4816	OD2	ASP	622	-36.118	39.391	37.535	1.00	100.00
ATOM	4817	C	ASP	622	-39.905	37.781	38.678	1.00	69.31
ATOM	4818	O	ASP	622	-40.029	36.621	39.073	1.00	88.82
ATOM	4819	N	ASN	623	-40.940	38.585	38.445	1.00	100.00
ATOM	4820	CA	ASN	623	-42.322	38.127	38.568	1.00	99.36
ATOM	4821	CB	ASN	623	-43.213	39.231	39.139	1.00	53.63
ATOM	4822	CG	ASN	623	-43.174	39.287	40.639	1.00	55.31
ATOM	4823	OD1	ASN	623	-44.013	38.686	41.313	1.00	53.58
ATOM	4824	ND2	ASN	623	-42.200	40.012	41.177	1.00	61.45
ATOM	4825	C	ASN	623	-42.899	37.670	37.236	1.00	99.23
ATOM	4826	O	ASN	623	-43.214	38.489	36.373	1.00	65.01
ATOM	4827	N	PRO	624	-43.043	36.352	37.049	1.00	42.73
ATOM	4828	CD	PRO	624	-42.555	35.264	37.911	1.00	76.82
ATOM	4829	CA	PRO	624	-43.593	35.815	35.803	1.00	41.73
ATOM	4830	CB	PRO	624	-43.476	34.305	36.012	1.00	74.90
ATOM	4831	CG	PRO	624	-42.278	34.184	36.905	1.00	78.59
ATOM	4832	C	PRO	624	-45.048	36.248	35.617	1.00	40.46
ATOM	4833	O	PRO	624	-45.873	36.052	36.508	1.00	80.44
ATOM	4834	N	LEU	625	-45.359	36.839	34.464	1.00	41.54
ATOM	4835	CA	LEU	625	-46.716	37.299	34.218	1.00	38.15
ATOM	4836	CB	LEU	625	-46.801	38.822	34.373	1.00	39.78
ATOM	4837	CG	LEU	625	-48.110	39.386	34.955	1.00	38.04
ATOM	4838	CD1	LEU	625	-47.981	40.877	35.170	1.00	45.64
ATOM	4839	CD2	LEU	625	-49.298	39.094	34.054	1.00	46.47
ATOM	4840	C	LEU	625	-47.303	36.883	32.878	1.00	38.89

ATOM	4841	O	LEU	625	-46.817	37.272	31.816	1.00	39.62
ATOM	4842	N	THR	626	-48.406	36.146	32.958	1.00	46.75
ATOM	4843	CA	THR	626	-49.121	35.670	31.785	1.00	46.69
ATOM	4844	CB	THR	626	-49.479	34.199	31.927	1.00	61.24
ATOM	4845	OG1	THR	626	-50.322	34.038	33.073	1.00	67.42
ATOM	4846	CG2	THR	626	-48.218	33.360	32.105	1.00	65.41
ATOM	4847	C	THR	626	-50.415	36.459	31.613	1.00	45.16
ATOM	4848	O	THR	626	-51.185	36.642	32.563	1.00	63.02
ATOM	4849	N	LEU	627	-50.634	36.932	30.392	1.00	62.06
ATOM	4850	CA	LEU	627	-51.817	37.706	30.056	1.00	57.73
ATOM	4851	CB	LEU	627	-51.419	38.999	29.346	1.00	17.49
ATOM	4852	CG	LEU	627	-50.802	40.055	30.264	1.00	13.46
ATOM	4853	CD1	LEU	627	-50.599	41.389	29.537	1.00	10.65
ATOM	4854	CD2	LEU	627	-51.719	40.247	31.452	1.00	23.97
ATOM	4855	C	LEU	627	-52.765	36.909	29.183	1.00	61.38
ATOM	4856	O	LEU	627	-52.363	36.332	28.176	1.00	27.30
ATOM	4857	N	ILE	628	-54.034	36.892	29.564	1.00	64.72
ATOM	4858	CA	ILE	628	-55.031	36.158	28.803	1.00	66.69
ATOM	4859	CB	ILE	628	-55.886	35.298	29.726	1.00	35.07
ATOM	4860	CG2	ILE	628	-56.765	34.368	28.899	1.00	34.79
ATOM	4861	CG1	ILE	628	-54.971	34.486	30.641	1.00	37.37
ATOM	4862	CD1	ILE	628	-53.937	33.659	29.888	1.00	40.47
ATOM	4863	C	ILE	628	-55.914	37.093	27.989	1.00	66.77
ATOM	4864	O	ILE	628	-56.926	37.595	28.480	1.00	39.53
ATOM	4865	N	VAL	629	-55.533	37.292	26.730	1.00	26.08
ATOM	4866	CA	VAL	629	-56.255	38.181	25.824	1.00	28.40
ATOM	4867	CB	VAL	629	-55.294	38.822	24.787	1.00	20.86
ATOM	4868	CG1	VAL	629	-54.123	39.478	25.489	1.00	15.62
ATOM	4869	CG2	VAL	629	-54.788	37.788	23.809	1.00	23.98
ATOM	4870	C	VAL	629	-57.423	37.534	25.074	1.00	32.20
ATOM	4871	O	VAL	629	-57.348	36.369	24.677	1.00	25.07
ATOM	4872	N	LYS	630	-58.500	38.298	24.895	1.00	58.60
ATOM	4873	CA	LYS	630	-59.677	37.825	24.171	1.00	58.18
ATOM	4874	CB	LYS	630	-60.877	37.635	25.108	1.00	59.83
ATOM	4875	CG	LYS	630	-62.074	36.964	24.431	1.00	65.15
ATOM	4876	CD	LYS	630	-63.212	36.706	25.400	1.00	76.79
ATOM	4877	CE	LYS	630	-62.803	35.730	26.488	1.00	85.77
ATOM	4878	NZ	LYS	630	-63.917	35.437	27.427	1.00	87.79
ATOM	4879	C	LYS	630	-60.016	38.818	23.057	1.00	55.92
ATOM	4880	O	LYS	630	-60.920	39.652	23.189	1.00	55.58
ATOM	4881	N	ALA	631	-59.255	38.735	21.971	1.00	36.36
ATOM	4882	CA	ALA	631	-59.443	39.606	20.815	1.00	32.24
ATOM	4883	CB	ALA	631	-58.109	39.884	20.139	1.00	69.55
ATOM	4884	C	ALA	631	-60.403	38.962	19.830	1.00	29.25
ATOM	4885	O	ALA	631	-60.390	37.747	19.651	1.00	63.91
ATOM	4886	N	GLN	632	-61.202	39.788	19.162	1.00	28.17
ATOM	4887	CA	GLN	632	-62.188	39.293	18.208	1.00	35.23
ATOM	4888	CB	GLN	632	-63.411	38.760	18.971	1.00	74.85
ATOM	4889	CG	GLN	632	-63.989	39.751	19.976	1.00	90.51
ATOM	4890	CD	GLN	632	-64.657	39.090	21.166	1.00	100.00
ATOM	4891	OE1	GLN	632	-65.653	38.383	21.022	1.00	100.00
ATOM	4892	NE2	GLN	632	-64.113	39.328	22.357	1.00	100.00
ATOM	4893	C	GLN	632	-62.618	40.339	17.175	1.00	35.39
ATOM	4894	O	GLN	632	-62.312	41.526	17.309	1.00	70.02
ATOM	4895	N	ASN	633	-63.304	39.869	16.133	1.00	70.75
ATOM	4896	CA	ASN	633	-63.810	40.714	15.053	1.00	67.28
ATOM	4897	CB	ASN	633	-63.139	40.336	13.715	1.00	29.89

ATOM	4898	CG	ASN	633	-63.397	41.360	12.592	1.00	29.44
ATOM	4899	OD1	ASN	633	-62.868	41.227	11.493	1.00	33.98
ATOM	4900	ND2	ASN	633	-64.200	42.380	12.875	1.00	27.42
ATOM	4901	C	ASN	633	-65.320	40.483	14.972	1.00	74.88
ATOM	4902	O	ASN	633	-65.775	39.350	14.812	1.00	53.95
ATOM	4903	N	GLN	634	-66.093	41.552	15.133	1.00	74.39
ATOM	4904	CA	GLN	634	-67.545	41.454	15.064	1.00	82.86
ATOM	4905	CB	GLN	634	-68.181	41.922	16.371	1.00	87.40
ATOM	4906	CG	GLN	634	-69.124	40.901	16.961	1.00	98.55
ATOM	4907	CD	GLN	634	-68.559	39.500	16.869	1.00	99.76
ATOM	4908	OE1	GLN	634	-69.072	38.659	16.131	1.00	99.76
ATOM	4909	NE2	GLN	634	-67.471	39.253	17.589	1.00	99.57
ATOM	4910	C	GLN	634	-68.103	42.212	13.864	1.00	85.53
ATOM	4911	O	GLN	634	-69.318	42.293	13.667	1.00	90.45
ATOM	4912	N	GLY	635	-67.194	42.801	13.094	1.00	94.07
ATOM	4913	CA	GLY	635	-67.564	43.505	11.883	1.00	92.65
ATOM	4914	C	GLY	635	-67.121	42.584	10.762	1.00	91.17
ATOM	4915	O	GLY	635	-66.941	41.385	10.979	1.00	39.95
ATOM	4916	N	GLU	636	-66.918	43.117	9.568	1.00	38.04
ATOM	4917	CA	GLU	636	-66.485	42.272	8.463	1.00	33.05
ATOM	4918	CB	GLU	636	-67.032	42.804	7.141	1.00	77.85
ATOM	4919	CG	GLU	636	-67.001	44.302	7.040	1.00	75.30
ATOM	4920	CD	GLU	636	-68.238	44.863	6.376	1.00	78.41
ATOM	4921	OE1	GLU	636	-68.739	44.236	5.417	1.00	72.65
ATOM	4922	OE2	GLU	636	-68.716	45.932	6.820	1.00	70.68
ATOM	4923	C	GLU	636	-64.974	42.113	8.416	1.00	30.57
ATOM	4924	O	GLU	636	-64.325	42.025	9.458	1.00	67.85
ATOM	4925	N	GLY	637	-64.427	42.080	7.204	1.00	52.23
ATOM	4926	CA	GLY	637	-62.995	41.927	7.012	1.00	47.42
ATOM	4927	C	GLY	637	-62.093	42.860	7.804	1.00	49.05
ATOM	4928	O	GLY	637	-62.390	44.044	8.002	1.00	43.65
ATOM	4929	N	ALA	638	-60.981	42.301	8.273	1.00	22.73
ATOM	4930	CA	ALA	638	-59.991	43.040	9.041	1.00	18.82
ATOM	4931	CB	ALA	638	-60.016	42.591	10.495	1.00	63.03
ATOM	4932	C	ALA	638	-58.627	42.766	8.416	1.00	20.90
ATOM	4933	O	ALA	638	-57.854	41.962	8.938	1.00	73.31
ATOM	4934	N	TYR	639	-58.350	43.428	7.289	1.00	69.34
ATOM	4935	CA	TYR	639	-57.088	43.272	6.551	1.00	69.72
ATOM	4936	CB	TYR	639	-57.012	44.243	5.364	1.00	84.78
ATOM	4937	CG	TYR	639	-58.276	44.374	4.550	1.00	95.43
ATOM	4938	CD1	TYR	639	-58.474	43.599	3.411	1.00	98.77
ATOM	4939	CE1	TYR	639	-59.625	43.734	2.637	1.00	99.96
ATOM	4940	CD2	TYR	639	-59.262	45.296	4.902	1.00	99.49
ATOM	4941	CE2	TYR	639	-60.419	45.440	4.138	1.00	99.96
ATOM	4942	CZ	TYR	639	-60.592	44.657	3.004	1.00	99.96
ATOM	4943	OH	TYR	639	-61.730	44.797	2.240	1.00	99.96
ATOM	4944	C	TYR	639	-55.905	43.561	7.459	1.00	66.35
ATOM	4945	O	TYR	639	-55.934	44.517	8.234	1.00	69.30
ATOM	4946	N	GLU	640	-54.868	42.737	7.358	1.00	33.46
ATOM	4947	CA	GLU	640	-53.662	42.906	8.159	1.00	27.59
ATOM	4948	CB	GLU	640	-52.770	43.972	7.515	1.00	25.68
ATOM	4949	CG	GLU	640	-52.386	43.616	6.084	1.00	39.77
ATOM	4950	CD	GLU	640	-51.948	44.806	5.254	1.00	48.95
ATOM	4951	OE1	GLU	640	-52.796	45.385	4.539	1.00	61.07
ATOM	4952	OE2	GLU	640	-50.750	45.148	5.294	1.00	62.82
ATOM	4953	C	GLU	640	-54.021	43.271	9.595	1.00	25.43
ATOM	4954	O	GLU	640	-53.786	44.397	10.048	1.00	24.21

ATOM	4955	N	ALA	641	-54.687	42.334	10.266	1.00	18.35
ATOM	4956	CA	ALA	641	-55.098	42.521	11.651	1.00	18.00
ATOM	4957	CB	ALA	641	-56.238	41.577	11.989	1.00	46.72
ATOM	4958	C	ALA	641	-53.904	42.266	12.566	1.00	21.27
ATOM	4959	O	ALA	641	-52.986	41.512	12.209	1.00	43.29
ATOM	4960	N	GLU	642	-53.893	42.924	13.723	1.00	36.29
ATOM	4961	CA	GLU	642	-52.801	42.750	14.672	1.00	40.66
ATOM	4962	CB	GLU	642	-51.487	43.296	14.104	1.00	35.67
ATOM	4963	CG	GLU	642	-51.424	44.804	14.068	1.00	49.53
ATOM	4964	CD	GLU	642	-50.645	45.324	12.885	1.00	61.44
ATOM	4965	OE1	GLU	642	-51.090	46.327	12.271	1.00	60.67
ATOM	4966	OE2	GLU	642	-49.597	44.723	12.566	1.00	69.29
ATOM	4967	C	GLU	642	-53.058	43.346	16.048	1.00	41.65
ATOM	4968	O	GLU	642	-53.651	44.418	16.196	1.00	38.69
ATOM	4969	N	LEU	643	-52.595	42.606	17.047	1.00	37.62
ATOM	4970	CA	LEU	643	-52.709	42.967	18.447	1.00	39.71
ATOM	4971	CB	LEU	643	-52.680	41.702	19.297	1.00	57.66
ATOM	4972	CG	LEU	643	-52.648	41.901	20.806	1.00	50.94
ATOM	4973	CD1	LEU	643	-53.935	42.570	21.239	1.00	52.08
ATOM	4974	CD2	LEU	643	-52.468	40.566	21.509	1.00	57.63
ATOM	4975	C	LEU	643	-51.528	43.847	18.818	1.00	44.09
ATOM	4976	O	LEU	643	-50.391	43.561	18.451	1.00	81.77
ATOM	4977	N	ILE	644	-51.807	44.916	19.548	1.00	28.78
ATOM	4978	CA	ILE	644	-50.769	45.839	19.970	1.00	21.38
ATOM	4979	CB	ILE	644	-50.977	47.241	19.344	1.00	37.13
ATOM	4980	CG2	ILE	644	-49.983	48.246	19.911	1.00	37.31
ATOM	4981	CG1	ILE	644	-50.847	47.154	17.824	1.00	24.61
ATOM	4982	CD1	ILE	644	-49.547	46.550	17.341	1.00	30.07
ATOM	4983	C	ILE	644	-50.740	45.940	21.489	1.00	16.49
ATOM	4984	O	ILE	644	-51.549	46.649	22.096	1.00	38.62
ATOM	4985	N	VAL	645	-49.834	45.189	22.101	1.00	12.35
ATOM	4986	CA	VAL	645	-49.701	45.213	23.546	1.00	20.70
ATOM	4987	CB	VAL	645	-49.323	43.815	24.119	1.00	22.07
ATOM	4988	CG1	VAL	645	-49.216	43.873	25.632	1.00	20.75
ATOM	4989	CG2	VAL	645	-50.347	42.775	23.715	1.00	28.65
ATOM	4990	C	VAL	645	-48.602	46.215	23.891	1.00	27.19
ATOM	4991	O	VAL	645	-47.476	46.109	23.393	1.00	28.71
ATOM	4992	N	SER	646	-48.945	47.212	24.700	1.00	49.06
ATOM	4993	CA	SER	646	-47.977	48.214	25.122	1.00	61.39
ATOM	4994	CB	SER	646	-48.644	49.572	25.304	1.00	66.06
ATOM	4995	OG	SER	646	-49.209	50.014	24.087	1.00	73.64
ATOM	4996	C	SER	646	-47.387	47.761	26.442	1.00	69.85
ATOM	4997	O	SER	646	-48.115	47.344	27.343	1.00	74.59
ATOM	4998	N	ILE	647	-46.064	47.822	26.548	1.00	85.61
ATOM	4999	CA	ILE	647	-45.392	47.408	27.770	1.00	87.95
ATOM	5000	CB	ILE	647	-44.656	46.070	27.578	1.00	36.63
ATOM	5001	CG2	ILE	647	-45.614	45.012	27.030	1.00	33.94
ATOM	5002	CG1	ILE	647	-43.453	46.247	26.655	1.00	37.66
ATOM	5003	CD1	ILE	647	-42.538	45.050	26.638	1.00	44.91
ATOM	5004	C	ILE	647	-44.407	48.468	28.256	1.00	92.33
ATOM	5005	O	ILE	647	-43.956	49.310	27.472	1.00	53.19
ATOM	5006	N	PRO	648	-44.092	48.459	29.569	1.00	100.00
ATOM	5007	CD	PRO	648	-44.781	47.604	30.553	1.00	34.48
ATOM	5008	CA	PRO	648	-43.171	49.381	30.251	1.00	100.00
ATOM	5009	CB	PRO	648	-43.595	49.248	31.708	1.00	36.87
ATOM	5010	CG	PRO	648	-43.952	47.802	31.793	1.00	30.80
ATOM	5011	C	PRO	648	-41.680	49.061	30.074	1.00	100.00

ATOM	5012	O	PRO	648	-41.308	48.176	29.301	1.00	36.26
ATOM	5013	N	LEU	649	-40.836	49.771	30.819	1.00	64.97
ATOM	5014	CA	LEU	649	-39.393	49.584	30.734	1.00	62.35
ATOM	5015	CB	LEU	649	-38.665	50.794	31.314	1.00	81.19
ATOM	5016	CG	LEU	649	-38.234	51.848	30.296	1.00	76.27
ATOM	5017	CD1	LEU	649	-39.454	52.456	29.630	1.00	76.13
ATOM	5018	CD2	LEU	649	-37.402	52.913	30.989	1.00	75.22
ATOM	5019	C	LEU	649	-38.852	48.316	31.378	1.00	58.84
ATOM	5020	O	LEU	649	-37.660	48.015	31.262	1.00	79.76
ATOM	5021	N	GLN	650	-39.722	47.564	32.041	1.00	78.63
ATOM	5022	CA	GLN	650	-39.291	46.343	32.704	1.00	77.92
ATOM	5023	CB	GLN	650	-39.084	46.595	34.203	1.00	63.97
ATOM	5024	CG	GLN	650	-40.354	46.870	35.005	1.00	58.48
ATOM	5025	CD	GLN	650	-41.037	48.181	34.652	1.00	51.41
ATOM	5026	OE1	GLN	650	-42.235	48.340	34.875	1.00	41.26
ATOM	5027	NE2	GLN	650	-40.277	49.131	34.116	1.00	49.10
ATOM	5028	C	GLN	650	-40.267	45.199	32.501	1.00	76.48
ATOM	5029	O	GLN	650	-40.394	44.328	33.364	1.00	60.66
ATOM	5030	N	ALA	651	-40.948	45.192	31.359	1.00	73.40
ATOM	5031	CA	ALA	651	-41.911	44.137	31.067	1.00	76.47
ATOM	5032	CB	ALA	651	-42.937	44.624	30.076	1.00	86.41
ATOM	5033	C	ALA	651	-41.199	42.904	30.532	1.00	77.40
ATOM	5034	O	ALA	651	-41.089	41.887	31.224	1.00	82.92
ATOM	5035	N	ASP	652	-40.734	43.010	29.289	1.00	97.78
ATOM	5036	CA	ASP	652	-40.000	41.949	28.599	1.00	100.00
ATOM	5037	CB	ASP	652	-38.693	41.639	29.342	1.00	69.16
ATOM	5038	CG	ASP	652	-37.803	42.880	29.511	1.00	76.60
ATOM	5039	OD1	ASP	652	-38.326	44.020	29.603	1.00	76.60
ATOM	5040	OD2	ASP	652	-36.568	42.713	29.561	1.00	76.60
ATOM	5041	C	ASP	652	-40.810	40.684	28.280	1.00	95.42
ATOM	5042	O	ASP	652	-41.127	39.857	29.142	1.00	47.83
ATOM	5043	N	PHE	653	-41.145	40.570	27.003	1.00	48.66
ATOM	5044	CA	PHE	653	-41.930	39.473	26.466	1.00	45.16
ATOM	5045	CB	PHE	653	-42.451	39.916	25.089	1.00	55.85
ATOM	5046	CG	PHE	653	-43.048	38.820	24.258	1.00	51.56
ATOM	5047	CD1	PHE	653	-44.304	38.313	24.544	1.00	50.33
ATOM	5048	CD2	PHE	653	-42.368	38.335	23.145	1.00	49.34
ATOM	5049	CE1	PHE	653	-44.881	37.345	23.725	1.00	46.55
ATOM	5050	CE2	PHE	653	-42.937	37.365	22.318	1.00	51.86
ATOM	5051	CZ	PHE	653	-44.196	36.869	22.608	1.00	49.40
ATOM	5052	C	PHE	653	-41.146	38.159	26.384	1.00	51.52
ATOM	5053	O	PHE	653	-40.033	38.120	25.848	1.00	71.24
ATOM	5054	N	ILE	654	-41.722	37.099	26.951	1.00	97.03
ATOM	5055	CA	ILE	654	-41.106	35.768	26.930	1.00	100.00
ATOM	5056	CB	ILE	654	-41.679	34.841	28.042	1.00	83.26
ATOM	5057	CG2	ILE	654	-41.063	33.445	27.943	1.00	84.83
ATOM	5058	CG1	ILE	654	-41.426	35.426	29.431	1.00	91.83
ATOM	5059	CD1	ILE	654	-41.906	34.527	30.564	1.00	91.83
ATOM	5060	C	ILE	654	-41.419	35.106	25.588	1.00	100.00
ATOM	5061	O	ILE	654	-40.526	34.842	24.773	1.00	81.42
ATOM	5062	N	GLY	655	-42.708	34.839	25.392	1.00	82.14
ATOM	5063	CA	GLY	655	-43.201	34.205	24.182	1.00	78.06
ATOM	5064	C	GLY	655	-44.712	34.058	24.255	1.00	76.07
ATOM	5065	O	GLY	655	-45.363	34.668	25.110	1.00	41.13
ATOM	5066	N	VAL	656	-45.283	33.268	23.351	1.00	79.94
ATOM	5067	CA	VAL	656	-46.727	33.056	23.345	1.00	84.52
ATOM	5068	CB	VAL	656	-47.224	32.491	21.976	1.00	73.88

ATOM	5069	CG1	VAL	656	-48.728	32.726	21.823	1.00	76.87
ATOM	5070	CG2	VAL	656	-46.461	33.140	20.811	1.00	73.31
ATOM	5071	C	VAL	656	-47.064	32.109	24.506	1.00	84.94
ATOM	5072	O	VAL	656	-46.694	32.382	25.644	1.00	70.05
ATOM	5073	N	VAL	657	-47.741	30.999	24.235	1.00	96.00
ATOM	5074	CA	VAL	657	-48.076	30.068	25.307	1.00	100.00
ATOM	5075	CB	VAL	657	-49.550	30.248	25.779	1.00	76.29
ATOM	5076	CG1	VAL	657	-50.533	29.753	24.724	1.00	73.61
ATOM	5077	CG2	VAL	657	-49.761	29.573	27.124	1.00	78.31
ATOM	5078	C	VAL	657	-47.740	28.604	24.972	1.00	100.00
ATOM	5079	O	VAL	657	-46.780	28.057	25.527	1.00	83.67
ATOM	5080	N	ARG	658	-48.487	27.995	24.044	1.00	67.17
ATOM	5081	CA	ARG	658	-48.276	26.604	23.619	1.00	65.00
ATOM	5082	CB	ARG	658	-46.805	26.353	23.248	1.00	91.58
ATOM	5083	CG	ARG	658	-46.183	27.387	22.323	1.00	94.45
ATOM	5084	CD	ARG	658	-44.667	27.368	22.432	1.00	96.02
ATOM	5085	NE	ARG	658	-44.103	28.687	22.167	1.00	96.02
ATOM	5086	CZ	ARG	658	-43.468	29.027	21.051	1.00	96.02
ATOM	5087	NH1	ARG	658	-43.300	28.143	20.077	1.00	96.02
ATOM	5088	NH2	ARG	658	-43.015	30.263	20.905	1.00	96.02
ATOM	5089	C	ARG	658	-48.698	25.578	24.671	1.00	63.92
ATOM	5090	O	ARG	658	-49.482	24.674	24.377	1.00	88.64
ATOM	5091	N	ASN	659	-48.152	25.706	25.883	1.00	100.00
ATOM	5092	CA	ASN	659	-48.446	24.790	26.991	1.00	100.00
ATOM	5093	CB	ASN	659	-47.440	24.981	28.158	1.00	49.29
ATOM	5094	CG	ASN	659	-47.348	26.431	28.655	1.00	48.57
ATOM	5095	OD1	ASN	659	-48.130	26.865	29.510	1.00	47.80
ATOM	5096	ND2	ASN	659	-46.365	27.169	28.143	1.00	45.17
ATOM	5097	C	ASN	659	-49.895	24.820	27.495	1.00	99.44
ATOM	5098	O	ASN	659	-50.156	24.636	28.688	1.00	47.97
ATOM	5099	N	ASN	660	-50.832	25.003	26.566	1.00	46.07
ATOM	5100	CA	ASN	660	-52.256	25.047	26.890	1.00	48.67
ATOM	5101	CB	ASN	660	-52.655	26.448	27.380	1.00	100.00
ATOM	5102	CG	ASN	660	-53.883	26.431	28.293	1.00	100.00
ATOM	5103	OD1	ASN	660	-54.989	26.072	27.871	1.00	100.00
ATOM	5104	ND2	ASN	660	-53.690	26.829	29.552	1.00	100.00
ATOM	5105	C	ASN	660	-53.112	24.650	25.686	1.00	47.39
ATOM	5106	O	ASN	660	-52.953	25.185	24.586	1.00	99.63
ATOM	5107	N	GLU	661	-54.017	23.704	25.915	1.00	99.80
ATOM	5108	CA	GLU	661	-54.921	23.201	24.886	1.00	99.31
ATOM	5109	CB	GLU	661	-55.516	21.858	25.332	1.00	100.00
ATOM	5110	CG	GLU	661	-54.734	20.626	24.879	1.00	100.00
ATOM	5111	CD	GLU	661	-54.912	20.331	23.391	1.00	100.00
ATOM	5112	OE1	GLU	661	-53.892	20.275	22.667	1.00	100.00
ATOM	5113	OE2	GLU	661	-56.071	20.153	22.947	1.00	100.00
ATOM	5114	C	GLU	661	-56.046	24.182	24.548	1.00	97.37
ATOM	5115	O	GLU	661	-56.770	24.001	23.565	1.00	94.78
ATOM	5116	N	ALA	662	-56.188	25.222	25.361	1.00	88.42
ATOM	5117	CA	ALA	662	-57.229	26.215	25.147	1.00	86.28
ATOM	5118	CB	ALA	662	-57.878	26.587	26.481	1.00	96.57
ATOM	5119	C	ALA	662	-56.734	27.471	24.427	1.00	84.64
ATOM	5120	O	ALA	662	-57.480	28.081	23.659	1.00	91.76
ATOM	5121	N	LEU	663	-55.471	27.833	24.645	1.00	74.90
ATOM	5122	CA	LEU	663	-54.896	29.039	24.044	1.00	71.17
ATOM	5123	CB	LEU	663	-53.798	29.603	24.939	1.00	62.46
ATOM	5124	CG	LEU	663	-54.269	29.867	26.371	1.00	59.33
ATOM	5125	CD1	LEU	663	-53.134	30.439	27.201	1.00	56.40

ATOM	5126	CD2	LEU	663	-55.480	30.807	26.369	1.00	56.75
ATOM	5127	C	LEU	663	-54.390	28.899	22.619	1.00	71.77
ATOM	5128	O	LEU	663	-54.092	27.797	22.161	1.00	66.39
ATOM	5129	N	ALA	664	-54.287	30.035	21.931	1.00	43.85
ATOM	5130	CA	ALA	664	-53.842	30.072	20.541	1.00	40.77
ATOM	5131	CB	ALA	664	-54.730	31.014	19.746	1.00	53.86
ATOM	5132	C	ALA	664	-52.371	30.470	20.403	1.00	41.14
ATOM	5133	O	ALA	664	-51.865	31.282	21.185	1.00	55.57
ATOM	5134	N	ARG	665	-51.691	29.875	19.421	1.00	65.35
ATOM	5135	CA	ARG	665	-50.272	30.143	19.169	1.00	63.62
ATOM	5136	CB	ARG	665	-49.534	28.849	18.799	1.00	88.47
ATOM	5137	CG	ARG	665	-49.385	27.883	19.970	1.00	93.46
ATOM	5138	CD	ARG	665	-49.996	26.523	19.677	1.00	92.43
ATOM	5139	NE	ARG	665	-49.103	25.678	18.890	1.00	93.98
ATOM	5140	CZ	ARG	665	-48.376	24.686	19.397	1.00	95.82
ATOM	5141	NH1	ARG	665	-48.435	24.412	20.695	1.00	89.58
ATOM	5142	NH2	ARG	665	-47.595	23.963	18.605	1.00	93.38
ATOM	5143	C	ARG	665	-50.083	31.202	18.091	1.00	59.09
ATOM	5144	O	ARG	665	-49.791	30.893	16.934	1.00	71.87
ATOM	5145	N	LEU	666	-50.219	32.458	18.505	1.00	51.85
ATOM	5146	CA	LEU	666	-50.111	33.608	17.615	1.00	47.19
ATOM	5147	CB	LEU	666	-50.796	34.812	18.249	1.00	27.51
ATOM	5148	CG	LEU	666	-52.244	34.520	18.634	1.00	25.38
ATOM	5149	CD1	LEU	666	-52.877	35.747	19.261	1.00	25.57
ATOM	5150	CD2	LEU	666	-53.021	34.065	17.400	1.00	26.91
ATOM	5151	C	LEU	666	-48.700	33.979	17.214	1.00	46.44
ATOM	5152	O	LEU	666	-47.756	33.797	17.989	1.00	39.45
ATOM	5153	N	SER	667	-48.583	34.553	16.015	1.00	18.09
ATOM	5154	CA	SER	667	-47.298	34.958	15.458	1.00	18.16
ATOM	5155	CB	SER	667	-47.400	35.101	13.946	1.00	43.89
ATOM	5156	OG	SER	667	-47.699	33.847	13.358	1.00	56.80
ATOM	5157	C	SER	667	-46.757	36.225	16.084	1.00	13.29
ATOM	5158	O	SER	667	-46.215	37.096	15.394	1.00	19.11
ATOM	5159	N	CYS	668	-46.871	36.278	17.410	1.00	15.04
ATOM	5160	CA	CYS	668	-46.411	37.394	18.221	1.00	23.57
ATOM	5161	C	CYS	668	-44.913	37.643	18.127	1.00	23.40
ATOM	5162	O	CYS	668	-44.112	36.709	18.144	1.00	54.34
ATOM	5163	CB	CYS	668	-46.788	37.164	19.676	1.00	48.12
ATOM	5164	SG	CYS	668	-48.578	36.974	19.894	1.00	73.80
ATOM	5165	N	ALA	669	-44.554	38.919	18.033	1.00	13.37
ATOM	5166	CA	ALA	669	-43.163	39.334	17.943	1.00	18.10
ATOM	5167	CB	ALA	669	-42.735	39.437	16.484	1.00	63.38
ATOM	5168	C	ALA	669	-42.959	40.671	18.676	1.00	18.32
ATOM	5169	O	ALA	669	-43.836	41.538	18.672	1.00	55.50
ATOM	5170	N	PHE	670	-41.811	40.792	19.342	1.00	70.70
ATOM	5171	CA	PHE	670	-41.437	41.977	20.116	1.00	72.90
ATOM	5172	CB	PHE	670	-40.391	41.572	21.163	1.00	74.05
ATOM	5173	CG	PHE	670	-40.136	42.614	22.218	1.00	76.78
ATOM	5174	CD1	PHE	670	-39.286	43.689	21.971	1.00	78.62
ATOM	5175	CD2	PHE	670	-40.739	42.510	23.469	1.00	82.28
ATOM	5176	CE1	PHE	670	-39.040	44.643	22.952	1.00	90.30
ATOM	5177	CE2	PHE	670	-40.500	43.456	24.455	1.00	91.24
ATOM	5178	CZ	PHE	670	-39.649	44.527	24.197	1.00	94.57
ATOM	5179	C	PHE	670	-40.867	43.064	19.201	1.00	74.45
ATOM	5180	O	PHE	670	-40.256	42.748	18.179	1.00	70.84
ATOM	5181	N	LYS	671	-41.043	44.333	19.583	1.00	38.08
ATOM	5182	CA	LYS	671	-40.545	45.462	18.789	1.00	40.65

ATOM	5183	CB	LYS	671	-41.435	45.665	17.555	1.00100.00
ATOM	5184	CG	LYS	671	-40.881	46.638	16.516	1.00100.00
ATOM	5185	CD	LYS	671	-41.795	46.750	15.299	1.00100.00
ATOM	5186	CE	LYS	671	-43.144	47.350	15.661	1.00100.00
ATOM	5187	NZ	LYS	671	-43.013	48.688	16.308	1.00100.00
ATOM	5188	C	LYS	671	-40.488	46.762	19.590	1.00 43.34
ATOM	5189	O	LYS	671	-41.111	46.877	20.648	1.00 99.07
ATOM	5190	N	THR	672	-39.738	47.735	19.076	1.00 74.27
ATOM	5191	CA	THR	672	-39.601	49.042	19.717	1.00 85.64
ATOM	5192	CB	THR	672	-38.213	49.229	20.352	1.00 87.41
ATOM	5193	OG1	THR	672	-37.199	48.817	19.424	1.00 84.49
ATOM	5194	CG2	THR	672	-38.102	48.427	21.632	1.00 84.85
ATOM	5195	C	THR	672	-39.809	50.157	18.708	1.00 89.14
ATOM	5196	O	THR	672	-40.732	50.960	18.843	1.00 85.11
ATOM	5197	N	GLU	673	-38.923	50.195	17.713	1.00 97.31
ATOM	5198	CA	GLU	673	-38.936	51.177	16.629	1.00 97.31
ATOM	5199	CB	GLU	673	-40.153	50.968	15.724	1.00 99.71
ATOM	5200	CG	GLU	673	-39.801	50.648	14.276	1.00 99.71
ATOM	5201	CD	GLU	673	-39.118	49.295	14.105	1.00 99.71
ATOM	5202	OE1	GLU	673	-37.940	49.148	14.508	1.00 99.71
ATOM	5203	OE2	GLU	673	-39.761	48.377	13.549	1.00 99.71
ATOM	5204	C	GLU	673	-38.861	52.630	17.078	1.00 97.31
ATOM	5205	O	GLU	673	-37.956	53.368	16.685	1.00 99.71
ATOM	5206	N	ASN	674	-39.829	53.034	17.889	1.00 99.48
ATOM	5207	CA	ASN	674	-39.894	54.391	18.395	1.00 99.48
ATOM	5208	CB	ASN	674	-41.307	54.932	18.188	1.00 95.54
ATOM	5209	CG	ASN	674	-41.328	56.420	17.956	1.00 95.54
ATOM	5210	OD1	ASN	674	-41.033	56.892	16.857	1.00 95.54
ATOM	5211	ND2	ASN	674	-41.677	57.175	18.991	1.00 95.54
ATOM	5212	C	ASN	674	-39.536	54.401	19.879	1.00 99.48
ATOM	5213	O	ASN	674	-39.005	53.417	20.407	1.00 95.54
ATOM	5214	N	GLN	675	-39.812	55.524	20.539	1.00100.00
ATOM	5215	CA	GLN	675	-39.552	55.684	21.969	1.00100.00
ATOM	5216	CB	GLN	675	-39.582	57.166	22.360	1.00 99.51
ATOM	5217	CG	GLN	675	-38.509	58.026	21.700	1.00 99.51
ATOM	5218	CD	GLN	675	-38.723	58.207	20.206	1.00 99.51
ATOM	5219	OE1	GLN	675	-39.606	58.953	19.777	1.00 98.77
ATOM	5220	NE2	GLN	675	-37.914	57.522	19.406	1.00 99.51
ATOM	5221	C	GLN	675	-40.653	54.932	22.704	1.00100.00
ATOM	5222	O	GLN	675	-41.268	55.441	23.648	1.00 99.51
ATOM	5223	N	THR	676	-40.883	53.704	22.251	1.00100.00
ATOM	5224	CA	THR	676	-41.909	52.841	22.800	1.00 98.58
ATOM	5225	CB	THR	676	-43.259	53.115	22.115	1.00 68.16
ATOM	5226	OG1	THR	676	-44.224	52.153	22.556	1.00 73.27
ATOM	5227	CG2	THR	676	-43.114	53.046	20.591	1.00 66.59
ATOM	5228	C	THR	676	-41.554	51.367	22.629	1.00 93.25
ATOM	5229	O	THR	676	-40.957	50.966	21.627	1.00 53.23
ATOM	5230	N	ARG	677	-41.927	50.575	23.630	1.00 84.27
ATOM	5231	CA	ARG	677	-41.686	49.135	23.645	1.00 80.05
ATOM	5232	CB	ARG	677	-41.018	48.725	24.966	1.00 77.46
ATOM	5233	CG	ARG	677	-40.052	49.763	25.557	1.00 84.36
ATOM	5234	CD	ARG	677	-39.391	49.261	26.832	1.00 84.83
ATOM	5235	NE	ARG	677	-38.539	48.105	26.567	1.00 90.05
ATOM	5236	CZ	ARG	677	-38.665	46.919	27.157	1.00 90.58
ATOM	5237	NH1	ARG	677	-39.611	46.709	28.065	1.00 89.04
ATOM	5238	NH2	ARG	677	-37.850	45.928	26.823	1.00 86.63
ATOM	5239	C	ARG	677	-43.064	48.480	23.533	1.00 76.24

ATOM	5240	O	ARG	677	-44.019	48.922	24.185	1.00	65.81
ATOM	5241	N	GLN	678	-43.169	47.419	22.735	1.00	48.27
ATOM	5242	CA	GLN	678	-44.464	46.761	22.546	1.00	45.70
ATOM	5243	CB	GLN	678	-45.384	47.708	21.765	1.00	80.00
ATOM	5244	CG	GLN	678	-44.877	48.008	20.349	1.00	80.60
ATOM	5245	CD	GLN	678	-45.569	49.184	19.693	1.00	83.28
ATOM	5246	OE1	GLN	678	-44.923	50.001	19.036	1.00	90.98
ATOM	5247	NE2	GLN	678	-46.886	49.272	19.858	1.00	80.68
ATOM	5248	C	GLN	678	-44.435	45.405	21.824	1.00	38.80
ATOM	5249	O	GLN	678	-43.507	45.103	21.060	1.00	56.55
ATOM	5250	N	VAL	679	-45.498	44.626	22.037	1.00	56.12
ATOM	5251	CA	VAL	679	-45.664	43.311	21.416	1.00	59.47
ATOM	5252	CB	VAL	679	-46.030	42.214	22.455	1.00	17.39
ATOM	5253	CG1	VAL	679	-46.320	40.876	21.749	1.00	20.67
ATOM	5254	CG2	VAL	679	-44.904	42.037	23.456	1.00	18.17
ATOM	5255	C	VAL	679	-46.789	43.348	20.385	1.00	63.08
ATOM	5256	O	VAL	679	-47.847	43.933	20.632	1.00	33.12
ATOM	5257	N	VAL	680	-46.542	42.740	19.227	1.00	56.32
ATOM	5258	CA	VAL	680	-47.546	42.656	18.169	1.00	53.70
ATOM	5259	CB	VAL	680	-47.081	43.303	16.834	1.00	31.74
ATOM	5260	CG1	VAL	680	-46.478	44.663	17.084	1.00	14.77
ATOM	5261	CG2	VAL	680	-46.114	42.394	16.096	1.00	38.75
ATOM	5262	C	VAL	680	-47.835	41.183	17.910	1.00	53.52
ATOM	5263	O	VAL	680	-47.035	40.315	18.260	1.00	39.11
ATOM	5264	N	CYS	681	-48.978	40.906	17.295	1.00	31.66
ATOM	5265	CA	CYS	681	-49.352	39.537	16.978	1.00	32.22
ATOM	5266	C	CYS	681	-50.212	39.513	15.724	1.00	39.39
ATOM	5267	O	CYS	681	-51.072	40.368	15.535	1.00	55.34
ATOM	5268	CB	CYS	681	-50.131	38.906	18.133	1.00	35.83
ATOM	5269	SG	CYS	681	-49.279	38.874	19.741	1.00	63.61
ATOM	5270	N	ASP	682	-49.935	38.563	14.840	1.00	26.83
ATOM	5271	CA	ASP	682	-50.717	38.415	13.629	1.00	27.05
ATOM	5272	CB	ASP	682	-50.082	37.389	12.690	1.00	72.97
ATOM	5273	CG	ASP	682	-48.780	37.865	12.095	1.00	83.37
ATOM	5274	OD1	ASP	682	-48.042	38.612	12.773	1.00	88.15
ATOM	5275	OD2	ASP	682	-48.494	37.479	10.942	1.00	91.04
ATOM	5276	C	ASP	682	-52.046	37.869	14.104	1.00	24.96
ATOM	5277	O	ASP	682	-52.080	36.974	14.952	1.00	64.44
ATOM	5278	N	LEU	683	-53.136	38.442	13.607	1.00	76.50
ATOM	5279	CA	LEU	683	-54.474	37.981	13.967	1.00	76.61
ATOM	5280	CB	LEU	683	-55.295	39.116	14.580	1.00	26.80
ATOM	5281	CG	LEU	683	-55.180	39.275	16.095	1.00	22.17
ATOM	5282	CD1	LEU	683	-53.747	39.568	16.497	1.00	15.41
ATOM	5283	CD2	LEU	683	-56.108	40.388	16.553	1.00	30.73
ATOM	5284	C	LEU	683	-55.153	37.453	12.716	1.00	78.64
ATOM	5285	O	LEU	683	-56.380	37.494	12.588	1.00	29.51
ATOM	5286	N	GLY	684	-54.336	36.882	11.834	1.00	75.23
ATOM	5287	CA	GLY	684	-54.826	36.374	10.571	1.00	80.30
ATOM	5288	C	GLY	684	-54.961	37.621	9.728	1.00	76.90
ATOM	5289	O	GLY	684	-55.615	38.578	10.170	1.00	36.08
ATOM	5290	N	ASN	685	-54.308	37.652	8.562	1.00	54.65
ATOM	5291	CA	ASN	685	-54.378	38.830	7.703	1.00	50.62
ATOM	5292	CB	ASN	685	-53.694	38.610	6.351	1.00	54.00
ATOM	5293	CG	ASN	685	-53.327	39.915	5.665	1.00	53.43
ATOM	5294	OD1	ASN	685	-52.176	40.125	5.290	1.00	49.93
ATOM	5295	ND2	ASN	685	-54.304	40.798	5.502	1.00	62.53
ATOM	5296	C	ASN	685	-55.855	39.165	7.581	1.00	51.24

ATOM	5297	O	ASN	685	-56.315	40.078	8.265	1.00	73.68
ATOM	5298	N	PRO	686	-56.629	38.438	6.751	1.00	50.95
ATOM	5299	CD	PRO	686	-56.386	37.533	5.616	1.00	29.42
ATOM	5300	CA	PRO	686	-58.032	38.871	6.763	1.00	47.60
ATOM	5301	CB	PRO	686	-58.590	38.287	5.460	1.00	30.08
ATOM	5302	CG	PRO	686	-57.357	38.061	4.606	1.00	33.94
ATOM	5303	C	PRO	686	-58.676	38.212	7.986	1.00	46.81
ATOM	5304	O	PRO	686	-59.048	37.046	7.932	1.00	37.66
ATOM	5305	N	MET	687	-58.694	38.915	9.115	1.00	19.50
ATOM	5306	CA	MET	687	-59.293	38.378	10.334	1.00	21.42
ATOM	5307	CB	MET	687	-58.956	39.265	11.537	1.00	18.27
ATOM	5308	CG	MET	687	-59.451	38.713	12.867	1.00	14.90
ATOM	5309	SD	MET	687	-59.274	39.913	14.187	1.00	25.64
ATOM	5310	CE	MET	687	-59.414	38.908	15.647	1.00	2.00
ATOM	5311	C	MET	687	-60.803	38.305	10.125	1.00	24.64
ATOM	5312	O	MET	687	-61.540	39.214	10.494	1.00	30.51
ATOM	5313	N	LYS	688	-61.241	37.200	9.530	1.00	19.90
ATOM	5314	CA	LYS	688	-62.640	36.948	9.209	1.00	25.03
ATOM	5315	CB	LYS	688	-62.839	35.467	8.883	1.00	41.66
ATOM	5316	CG	LYS	688	-62.299	35.042	7.517	1.00	50.45
ATOM	5317	CD	LYS	688	-63.264	35.374	6.358	1.00	59.96
ATOM	5318	CE	LYS	688	-63.317	36.861	5.961	1.00	69.57
ATOM	5319	NZ	LYS	688	-64.215	37.710	6.798	1.00	72.46
ATOM	5320	C	LYS	688	-63.638	37.396	10.262	1.00	25.50
ATOM	5321	O	LYS	688	-63.284	37.545	11.432	1.00	33.94
ATOM	5322	N	ALA	689	-64.873	37.653	9.830	1.00	24.85
ATOM	5323	CA	ALA	689	-65.934	38.095	10.733	1.00	30.66
ATOM	5324	CB	ALA	689	-67.198	38.413	9.944	1.00	59.36
ATOM	5325	C	ALA	689	-66.220	37.037	11.802	1.00	36.00
ATOM	5326	O	ALA	689	-66.049	35.840	11.557	1.00	71.94
ATOM	5327	N	GLY	690	-66.608	37.489	12.995	1.00	62.53
ATOM	5328	CA	GLY	690	-66.911	36.578	14.092	1.00	64.24
ATOM	5329	C	GLY	690	-65.705	35.851	14.659	1.00	66.28
ATOM	5330	O	GLY	690	-65.798	35.205	15.705	1.00	76.90
ATOM	5331	N	THR	691	-64.579	35.953	13.955	1.00	53.57
ATOM	5332	CA	THR	691	-63.324	35.321	14.346	1.00	48.97
ATOM	5333	CB	THR	691	-62.166	35.753	13.396	1.00	22.22
ATOM	5334	OG1	THR	691	-62.389	35.229	12.079	1.00	24.83
ATOM	5335	CG2	THR	691	-60.826	35.259	13.904	1.00	23.74
ATOM	5336	C	THR	691	-62.956	35.714	15.768	1.00	49.93
ATOM	5337	O	THR	691	-62.603	36.863	16.012	1.00	28.93
ATOM	5338	N	GLN	692	-63.094	34.779	16.709	1.00	58.94
ATOM	5339	CA	GLN	692	-62.739	35.048	18.101	1.00	58.22
ATOM	5340	CB	GLN	692	-63.863	34.679	19.076	1.00	82.05
ATOM	5341	CG	GLN	692	-63.475	34.966	20.537	1.00	91.95
ATOM	5342	CD	GLN	692	-64.579	34.696	21.546	1.00	93.35
ATOM	5343	OE1	GLN	692	-65.764	34.890	21.261	1.00	93.35
ATOM	5344	NE2	GLN	692	-64.188	34.269	22.749	1.00	89.10
ATOM	5345	C	GLN	692	-61.465	34.324	18.503	1.00	53.45
ATOM	5346	O	GLN	692	-61.286	33.145	18.208	1.00	70.47
ATOM	5347	N	LEU	693	-60.584	35.057	19.174	1.00	41.80
ATOM	5348	CA	LEU	693	-59.313	34.535	19.654	1.00	38.81
ATOM	5349	CB	LEU	693	-58.154	35.129	18.865	1.00	43.20
ATOM	5350	CG	LEU	693	-58.099	34.753	17.389	1.00	51.32
ATOM	5351	CD1	LEU	693	-56.991	35.534	16.692	1.00	59.12
ATOM	5352	CD2	LEU	693	-57.874	33.259	17.263	1.00	53.57
ATOM	5353	C	LEU	693	-59.128	34.844	21.134	1.00	39.36

ATOM	5354	O	LEU	693	-59.589	35.871	21.640	1.00	38.19
ATOM	5355	N	LEU	694	-58.414	33.951	21.808	1.00	72.14
ATOM	5356	CA	LEU	694	-58.142	34.067	23.230	1.00	69.37
ATOM	5357	CB	LEU	694	-59.275	33.368	24.000	1.00	43.26
ATOM	5358	CG	LEU	694	-59.481	33.422	25.518	1.00	48.67
ATOM	5359	CD1	LEU	694	-59.410	34.830	26.052	1.00	52.97
ATOM	5360	CD2	LEU	694	-60.837	32.812	25.850	1.00	50.21
ATOM	5361	C	LEU	694	-56.782	33.388	23.430	1.00	71.46
ATOM	5362	O	LEU	694	-56.657	32.180	23.262	1.00	53.99
ATOM	5363	N	ALA	695	-55.748	34.184	23.688	1.00	56.95
ATOM	5364	CA	ALA	695	-54.400	33.646	23.871	1.00	53.95
ATOM	5365	CB	ALA	695	-53.546	33.958	22.657	1.00	56.98
ATOM	5366	C	ALA	695	-53.696	34.114	25.152	1.00	52.76
ATOM	5367	O	ALA	695	-54.256	34.883	25.945	1.00	46.13
ATOM	5368	N	GLY	696	-52.462	33.648	25.344	1.00	42.03
ATOM	5369	CA	GLY	696	-51.707	34.006	26.531	1.00	38.71
ATOM	5370	C	GLY	696	-50.312	34.530	26.255	1.00	38.00
ATOM	5371	O	GLY	696	-49.483	33.838	25.667	1.00	63.42
ATOM	5372	N	LEU	697	-50.061	35.765	26.678	1.00	33.94
ATOM	5373	CA	LEU	697	-48.767	36.416	26.499	1.00	34.74
ATOM	5374	CB	LEU	697	-48.956	37.831	25.936	1.00	33.97
ATOM	5375	CG	LEU	697	-49.372	38.087	24.479	1.00	32.80
ATOM	5376	CD1	LEU	697	-48.235	37.750	23.570	1.00	28.79
ATOM	5377	CD2	LEU	697	-50.609	37.305	24.080	1.00	26.01
ATOM	5378	C	LEU	697	-48.076	36.499	27.855	1.00	39.15
ATOM	5379	O	LEU	697	-48.481	37.273	28.724	1.00	47.85
ATOM	5380	N	ARG	698	-47.046	35.685	28.044	1.00	33.85
ATOM	5381	CA	ARG	698	-46.318	35.683	29.301	1.00	32.90
ATOM	5382	CB	ARG	698	-45.863	34.270	29.672	1.00	59.03
ATOM	5383	CG	ARG	698	-45.097	33.543	28.587	1.00	67.20
ATOM	5384	CD	ARG	698	-44.762	32.122	29.014	1.00	75.11
ATOM	5385	NE	ARG	698	-45.960	31.337	29.307	1.00	73.76
ATOM	5386	CZ	ARG	698	-46.074	30.492	30.329	1.00	76.22
ATOM	5387	NH1	ARG	698	-45.062	30.313	31.170	1.00	76.71
ATOM	5388	NH2	ARG	698	-47.205	29.825	30.512	1.00	79.24
ATOM	5389	C	ARG	698	-45.141	36.637	29.291	1.00	30.95
ATOM	5390	O	ARG	698	-44.561	36.932	28.248	1.00	46.33
ATOM	5391	N	PHE	699	-44.821	37.141	30.474	1.00	49.27
ATOM	5392	CA	PHE	699	-43.729	38.080	30.665	1.00	58.17
ATOM	5393	CB	PHE	699	-44.284	39.493	30.795	1.00	52.43
ATOM	5394	CG	PHE	699	-44.993	39.974	29.578	1.00	59.36
ATOM	5395	CD1	PHE	699	-44.432	40.965	28.787	1.00	60.91
ATOM	5396	CD2	PHE	699	-46.215	39.434	29.212	1.00	60.84
ATOM	5397	CE1	PHE	699	-45.074	41.411	27.642	1.00	58.54
ATOM	5398	CE2	PHE	699	-46.866	39.868	28.072	1.00	64.10
ATOM	5399	CZ	PHE	699	-46.294	40.861	27.282	1.00	58.13
ATOM	5400	C	PHE	699	-42.977	37.737	31.941	1.00	63.86
ATOM	5401	O	PHE	699	-43.120	36.644	32.489	1.00	54.84
ATOM	5402	N	SER	700	-42.167	38.684	32.398	1.00	78.42
ATOM	5403	CA	SER	700	-41.395	38.529	33.622	1.00	87.79
ATOM	5404	CB	SER	700	-40.153	37.661	33.391	1.00	89.87
ATOM	5405	OG	SER	700	-39.659	37.142	34.618	1.00	91.75
ATOM	5406	C	SER	700	-41.007	39.928	34.081	1.00	89.73
ATOM	5407	O	SER	700	-40.050	40.526	33.583	1.00	85.78
ATOM	5408	N	VAL	701	-41.803	40.455	35.005	1.00	97.41
ATOM	5409	CA	VAL	701	-41.606	41.789	35.557	1.00	99.85
ATOM	5410	CB	VAL	701	-42.834	42.233	36.365	1.00	69.67

ATOM	5411	CG1	VAL	701	-42.685	43.687	36.809	1.00	73.34
ATOM	5412	CG2	VAL	701	-44.089	42.035	35.540	1.00	74.21
ATOM	5413	C	VAL	701	-40.377	41.898	36.447	1.00	100.00
ATOM	5414	O	VAL	701	-40.193	41.112	37.381	1.00	67.10
ATOM	5415	N	HIS	702	-39.564	42.911	36.164	1.00	99.85
ATOM	5416	CA	HIS	702	-38.340	43.168	36.909	1.00	100.00
ATOM	5417	CB	HIS	702	-37.212	43.555	35.944	1.00	100.00
ATOM	5418	CG	HIS	702	-36.888	42.491	34.935	1.00	100.00
ATOM	5419	CD2	HIS	702	-36.501	42.581	33.639	1.00	100.00
ATOM	5420	ND1	HIS	702	-36.944	41.146	35.224	1.00	100.00
ATOM	5421	CE1	HIS	702	-36.608	40.449	34.154	1.00	100.00
ATOM	5422	NE2	HIS	702	-36.333	41.299	33.176	1.00	100.00
ATOM	5423	C	HIS	702	-38.521	44.252	37.971	1.00	100.00
ATOM	5424	O	HIS	702	-37.818	44.242	38.979	1.00	100.00
ATOM	5425	N	GLN	703	-39.459	45.173	37.729	1.00	100.00
ATOM	5426	CA	GLN	703	-39.774	46.298	38.625	1.00	100.00
ATOM	5427	CB	GLN	703	-40.320	45.785	39.976	1.00	100.00
ATOM	5428	CG	GLN	703	-39.531	46.173	41.248	1.00	100.00
ATOM	5429	CD	GLN	703	-38.339	45.260	41.543	1.00	98.38
ATOM	5430	OE1	GLN	703	-37.252	45.727	41.898	1.00	93.56
ATOM	5431	NE2	GLN	703	-38.544	43.952	41.405	1.00	89.09
ATOM	5432	C	GLN	703	-38.612	47.291	38.813	1.00	100.00
ATOM	5433	O	GLN	703	-37.480	47.016	38.403	1.00	100.00
ATOM	5434	N	GLN	704	-38.904	48.466	39.375	1.00	100.00
ATOM	5435	CA	GLN	704	-37.875	49.484	39.616	1.00	100.00
ATOM	5436	CB	GLN	704	-37.916	50.574	38.539	1.00	81.57
ATOM	5437	CG	GLN	704	-37.608	50.082	37.131	1.00	81.11
ATOM	5438	CD	GLN	704	-37.937	51.111	36.071	1.00	81.57
ATOM	5439	OE1	GLN	704	-38.150	52.284	36.375	1.00	81.57
ATOM	5440	NE2	GLN	704	-37.989	50.676	34.818	1.00	81.57
ATOM	5441	C	GLN	704	-38.057	50.104	40.998	1.00	100.00
ATOM	5442	O	GLN	704	-38.311	51.306	41.127	1.00	79.97
ATOM	5443	N	SER	705	-37.905	49.265	42.023	1.00	100.00
ATOM	5444	CA	SER	705	-38.052	49.659	43.427	1.00	100.00
ATOM	5445	CB	SER	705	-36.909	50.600	43.867	1.00	68.53
ATOM	5446	OG	SER	705	-36.963	50.896	45.264	1.00	68.53
ATOM	5447	C	SER	705	-39.423	50.289	43.696	1.00	100.00
ATOM	5448	O	SER	705	-40.460	49.713	43.333	1.00	68.53
ATOM	5449	N	GLU	706	-39.413	51.472	44.316	1.00	100.00
ATOM	5450	CA	GLU	706	-40.630	52.201	44.653	1.00	100.00
ATOM	5451	CB	GLU	706	-40.286	53.544	45.302	1.00	100.00
ATOM	5452	CG	GLU	706	-41.276	53.980	46.376	1.00	100.00
ATOM	5453	CD	GLU	706	-42.721	53.889	45.919	1.00	100.00
ATOM	5454	OE1	GLU	706	-43.189	54.826	45.241	1.00	100.00
ATOM	5455	OE2	GLU	706	-43.385	52.874	46.228	1.00	100.00
ATOM	5456	C	GLU	706	-41.444	52.426	43.389	1.00	100.00
ATOM	5457	O	GLU	706	-42.477	51.780	43.193	1.00	100.00
ATOM	5458	N	MET	707	-40.975	53.361	42.563	1.00	100.00
ATOM	5459	CA	MET	707	-41.584	53.710	41.276	1.00	100.00
ATOM	5460	CB	MET	707	-40.837	52.971	40.167	1.00	97.12
ATOM	5461	CG	MET	707	-41.233	53.346	38.764	1.00	95.90
ATOM	5462	SD	MET	707	-40.507	52.165	37.638	1.00	99.64
ATOM	5463	CE	MET	707	-41.460	50.680	38.076	1.00	99.64
ATOM	5464	C	MET	707	-43.095	53.458	41.169	1.00	97.99
ATOM	5465	O	MET	707	-43.551	52.634	40.366	1.00	84.97
ATOM	5466	N	ASP	708	-43.855	54.166	42.001	1.00	98.65
ATOM	5467	CA	ASP	708	-45.314	54.067	42.048	1.00	98.65

ATOM	5468	CB	ASP	708	-45.928	54.368	40.666	1.00100.00
ATOM	5469	CG	ASP	708	-45.603	55.788	40.168	1.00100.00
ATOM	5470	OD1	ASP	708	-45.585	56.738	40.987	1.00100.00
ATOM	5471	OD2	ASP	708	-45.361	55.951	38.952	1.00100.00
ATOM	5472	C	ASP	708	-45.841	52.754	42.657	1.00 97.89
ATOM	5473	O	ASP	708	-45.262	52.258	43.627	1.00 97.97
ATOM	5474	N	THR	709	-46.904	52.178	42.089	1.00 72.79
ATOM	5475	CA	THR	709	-47.496	50.956	42.653	1.00 69.69
ATOM	5476	CB	THR	709	-48.611	51.315	43.671	1.00100.00
ATOM	5477	OG1	THR	709	-49.300	50.125	44.080	1.00100.00
ATOM	5478	CG2	THR	709	-49.612	52.292	43.056	1.00 98.54
ATOM	5479	C	THR	709	-48.052	49.865	41.722	1.00 63.46
ATOM	5480	O	THR	709	-48.173	48.712	42.134	1.00 88.40
ATOM	5481	N	SER	710	-48.432	50.218	40.500	1.00 70.84
ATOM	5482	CA	SER	710	-48.981	49.234	39.569	1.00 68.30
ATOM	5483	CB	SER	710	-50.488	49.453	39.402	1.00 64.71
ATOM	5484	OG	SER	710	-50.773	50.770	38.959	1.00 74.01
ATOM	5485	C	SER	710	-48.296	49.324	38.215	1.00 69.10
ATOM	5486	O	SER	710	-47.499	50.229	37.975	1.00 61.95
ATOM	5487	N	VAL	711	-48.592	48.379	37.331	1.00 82.59
ATOM	5488	CA	VAL	711	-47.994	48.399	36.002	1.00 85.04
ATOM	5489	CB	VAL	711	-46.878	47.374	35.844	1.00 52.54
ATOM	5490	CG1	VAL	711	-45.572	47.970	36.345	1.00 54.27
ATOM	5491	CG2	VAL	711	-47.226	46.102	36.591	1.00 58.07
ATOM	5492	C	VAL	711	-49.007	48.218	34.899	1.00 85.04
ATOM	5493	O	VAL	711	-49.598	47.146	34.743	1.00 51.01
ATOM	5494	N	LYS	712	-49.166	49.277	34.113	1.00 54.38
ATOM	5495	CA	LYS	712	-50.118	49.289	33.027	1.00 48.54
ATOM	5496	CB	LYS	712	-50.681	50.701	32.807	1.00 82.19
ATOM	5497	CG	LYS	712	-49.720	51.681	32.129	1.00 93.12
ATOM	5498	CD	LYS	712	-50.387	53.030	31.837	1.00 97.68
ATOM	5499	CE	LYS	712	-51.554	52.883	30.871	1.00 94.92
ATOM	5500	NZ	LYS	712	-52.203	54.183	30.539	1.00 89.66
ATOM	5501	C	LYS	712	-49.607	48.743	31.714	1.00 45.43
ATOM	5502	O	LYS	712	-48.430	48.857	31.368	1.00 75.50
ATOM	5503	N	PHE	713	-50.542	48.132	31.005	1.00 29.18
ATOM	5504	CA	PHE	713	-50.334	47.562	29.691	1.00 26.04
ATOM	5505	CB	PHE	713	-50.536	46.049	29.731	1.00 46.62
ATOM	5506	CG	PHE	713	-49.441	45.304	30.431	1.00 48.30
ATOM	5507	CD1	PHE	713	-49.664	44.719	31.673	1.00 47.37
ATOM	5508	CD2	PHE	713	-48.201	45.146	29.830	1.00 44.41
ATOM	5509	CE1	PHE	713	-48.667	43.981	32.303	1.00 45.08
ATOM	5510	CE2	PHE	713	-47.201	44.413	30.449	1.00 34.60
ATOM	5511	CZ	PHE	713	-47.435	43.828	31.688	1.00 40.94
ATOM	5512	C	PHE	713	-51.440	48.190	28.859	1.00 25.72
ATOM	5513	O	PHE	713	-52.477	48.565	29.396	1.00 39.64
ATOM	5514	N	ASP	714	-51.218	48.354	27.564	1.00 53.51
ATOM	5515	CA	ASP	714	-52.258	48.932	26.726	1.00 57.86
ATOM	5516	CB	ASP	714	-51.918	50.378	26.347	1.00 51.61
ATOM	5517	CG	ASP	714	-51.955	51.316	27.542	1.00 61.93
ATOM	5518	OD1	ASP	714	-50.880	51.795	27.960	1.00 68.01
ATOM	5519	OD2	ASP	714	-53.060	51.569	28.066	1.00 64.60
ATOM	5520	C	ASP	714	-52.530	48.060	25.504	1.00 63.84
ATOM	5521	O	ASP	714	-51.714	47.954	24.586	1.00 59.58
ATOM	5522	N	LEU	715	-53.684	47.405	25.531	1.00 73.23
ATOM	5523	CA	LEU	715	-54.095	46.506	24.465	1.00 68.38
ATOM	5524	CB	LEU	715	-54.835	45.312	25.065	1.00 57.75

ATOM	5525	CG	LEU	715	-54.159	44.720	26.302	1.00	59.11
ATOM	5526	CD1	LEU	715	-54.959	43.550	26.863	1.00	66.71
ATOM	5527	CD2	LEU	715	-52.757	44.291	25.927	1.00	62.35
ATOM	5528	C	LEU	715	-54.980	47.182	23.432	1.00	63.72
ATOM	5529	O	LEU	715	-55.771	48.067	23.750	1.00	61.69
ATOM	5530	N	GLN	716	-54.842	46.743	22.189	1.00	25.37
ATOM	5531	CA	GLN	716	-55.627	47.275	21.096	1.00	19.85
ATOM	5532	CB	GLN	716	-55.388	48.773	20.927	1.00	23.85
ATOM	5533	CG	GLN	716	-56.300	49.395	19.889	1.00	29.99
ATOM	5534	CD	GLN	716	-55.717	50.638	19.276	1.00	28.15
ATOM	5535	OE1	GLN	716	-54.647	50.595	18.672	1.00	24.19
ATOM	5536	NE2	GLN	716	-56.414	51.756	19.418	1.00	32.22
ATOM	5537	C	GLN	716	-55.237	46.566	19.814	1.00	17.42
ATOM	5538	O	GLN	716	-54.079	46.185	19.636	1.00	17.28
ATOM	5539	N	ILE	717	-56.220	46.356	18.943	1.00	22.61
ATOM	5540	CA	ILE	717	-55.996	45.714	17.656	1.00	19.24
ATOM	5541	CB	ILE	717	-57.054	44.628	17.353	1.00	9.60
ATOM	5542	CG2	ILE	717	-56.678	43.855	16.108	1.00	2.00
ATOM	5543	CG1	ILE	717	-57.205	43.667	18.525	1.00	11.92
ATOM	5544	CD1	ILE	717	-58.529	43.823	19.224	1.00	14.08
ATOM	5545	C	ILE	717	-56.166	46.823	16.629	1.00	21.56
ATOM	5546	O	ILE	717	-56.995	47.717	16.827	1.00	25.82
ATOM	5547	N	GLN	718	-55.373	46.775	15.556	1.00	13.09
ATOM	5548	CA	GLN	718	-55.443	47.775	14.489	1.00	23.74
ATOM	5549	CB	GLN	718	-54.444	48.905	14.722	1.00	44.65
ATOM	5550	CG	GLN	718	-53.016	48.456	14.820	1.00	62.86
ATOM	5551	CD	GLN	718	-52.192	49.378	15.684	1.00	70.73
ATOM	5552	OE1	GLN	718	-52.639	49.828	16.744	1.00	66.60
ATOM	5553	NE2	GLN	718	-50.970	49.650	15.250	1.00	75.86
ATOM	5554	C	GLN	718	-55.228	47.147	13.125	1.00	27.77
ATOM	5555	O	GLN	718	-54.287	46.379	12.920	1.00	48.88
ATOM	5556	N	SER	719	-56.110	47.492	12.192	1.00	17.84
ATOM	5557	CA	SER	719	-56.066	46.953	10.840	1.00	14.35
ATOM	5558	CB	SER	719	-57.349	46.178	10.560	1.00	51.37
ATOM	5559	OG	SER	719	-58.479	47.013	10.738	1.00	55.13
ATOM	5560	C	SER	719	-55.879	48.019	9.775	1.00	13.93
ATOM	5561	O	SER	719	-55.708	49.200	10.079	1.00	61.46
ATOM	5562	N	SER	720	-55.933	47.576	8.525	1.00	5.90
ATOM	5563	CA	SER	720	-55.767	48.428	7.352	1.00	16.49
ATOM	5564	CB	SER	720	-54.943	47.704	6.280	1.00	8.72
ATOM	5565	OG	SER	720	-53.665	47.348	6.763	1.00	9.86
ATOM	5566	C	SER	720	-57.062	48.928	6.705	1.00	16.96
ATOM	5567	O	SER	720	-57.010	49.598	5.663	1.00	4.97
ATOM	5568	N	ASN	721	-58.222	48.591	7.261	1.00	42.31
ATOM	5569	CA	ASN	721	-59.417	49.101	6.619	1.00	56.06
ATOM	5570	CB	ASN	721	-60.675	48.274	6.895	1.00	88.82
ATOM	5571	CG	ASN	721	-61.819	48.640	5.937	1.00	98.83
ATOM	5572	OD1	ASN	721	-61.707	48.470	4.716	1.00	100.00
ATOM	5573	ND2	ASN	721	-62.897	49.193	6.482	1.00	100.00
ATOM	5574	C	ASN	721	-59.646	50.571	6.931	1.00	56.50
ATOM	5575	O	ASN	721	-59.593	51.002	8.083	1.00	76.15
ATOM	5576	N	LEU	722	-59.896	51.322	5.864	1.00	25.26
ATOM	5577	CA	LEU	722	-60.140	52.751	5.909	1.00	19.49
ATOM	5578	CB	LEU	722	-60.570	53.215	4.514	1.00	31.66
ATOM	5579	CG	LEU	722	-59.767	52.603	3.355	1.00	36.02
ATOM	5580	CD1	LEU	722	-60.408	52.910	2.014	1.00	37.38
ATOM	5581	CD2	LEU	722	-58.343	53.098	3.376	1.00	34.92

ATOM	5582	C	LEU	722	-61.185	53.150	6.960	1.00	15.31
ATOM	5583	O	LEU	722	-61.206	54.293	7.422	1.00	26.40
ATOM	5584	N	PHE	723	-62.036	52.202	7.349	1.00	41.79
ATOM	5585	CA	PHE	723	-63.083	52.451	8.340	1.00	45.45
ATOM	5586	CB	PHE	723	-64.466	52.357	7.679	1.00	40.88
ATOM	5587	CG	PHE	723	-64.770	53.479	6.704	1.00	49.59
ATOM	5588	CD1	PHE	723	-65.935	54.234	6.843	1.00	57.37
ATOM	5589	CD2	PHE	723	-63.900	53.777	5.649	1.00	50.72
ATOM	5590	CE1	PHE	723	-66.225	55.262	5.949	1.00	62.75
ATOM	5591	CE2	PHE	723	-64.175	54.800	4.750	1.00	52.41
ATOM	5592	CZ	PHE	723	-65.338	55.545	4.898	1.00	63.82
ATOM	5593	C	PHE	723	-63.007	51.484	9.528	1.00	47.75
ATOM	5594	O	PHE	723	-62.708	50.297	9.368	1.00	45.64
ATOM	5595	N	ASP	724	-63.248	52.013	10.724	1.00	55.92
ATOM	5596	CA	ASP	724	-63.224	51.230	11.963	1.00	58.46
ATOM	5597	CB	ASP	724	-64.484	50.375	12.054	1.00	83.66
ATOM	5598	CG	ASP	724	-65.740	51.190	11.907	1.00	85.10
ATOM	5599	OD1	ASP	724	-65.988	52.054	12.774	1.00	89.64
ATOM	5600	OD2	ASP	724	-66.469	50.981	10.917	1.00	82.83
ATOM	5601	C	ASP	724	-61.988	50.344	12.114	1.00	51.79
ATOM	5602	O	ASP	724	-62.032	49.310	12.785	1.00	75.55
ATOM	5603	N	LYS	725	-60.876	50.794	11.540	1.00	49.28
ATOM	5604	CA	LYS	725	-59.619	50.055	11.560	1.00	44.79
ATOM	5605	CB	LYS	725	-58.548	50.809	10.779	1.00	37.90
ATOM	5606	CG	LYS	725	-58.102	52.122	11.395	1.00	42.00
ATOM	5607	CD	LYS	725	-56.974	52.714	10.574	1.00	36.23
ATOM	5608	CE	LYS	725	-57.419	52.934	9.134	1.00	43.85
ATOM	5609	NZ	LYS	725	-56.272	52.950	8.184	1.00	40.63
ATOM	5610	C	LYS	725	-59.033	49.643	12.903	1.00	44.49
ATOM	5611	O	LYS	725	-58.213	48.733	12.950	1.00	44.86
ATOM	5612	N	VAL	726	-59.435	50.299	13.988	1.00	7.61
ATOM	5613	CA	VAL	726	-58.882	49.967	15.301	1.00	5.29
ATOM	5614	CB	VAL	726	-58.012	51.115	15.866	1.00	39.15
ATOM	5615	CG1	VAL	726	-56.963	51.552	14.850	1.00	45.65
ATOM	5616	CG2	VAL	726	-58.886	52.274	16.280	1.00	47.14
ATOM	5617	C	VAL	726	-59.893	49.583	16.371	1.00	10.66
ATOM	5618	O	VAL	726	-61.089	49.840	16.243	1.00	49.63
ATOM	5619	N	SER	727	-59.386	48.965	17.432	1.00	80.73
ATOM	5620	CA	SER	727	-60.214	48.543	18.549	1.00	82.14
ATOM	5621	CB	SER	727	-59.816	47.140	19.008	1.00	53.51
ATOM	5622	OG	SER	727	-58.560	47.156	19.657	1.00	43.87
ATOM	5623	C	SER	727	-60.011	49.511	19.701	1.00	81.63
ATOM	5624	O	SER	727	-59.039	50.269	19.725	1.00	49.34
ATOM	5625	N	PRO	728	-60.942	49.518	20.664	1.00	92.46
ATOM	5626	CD	PRO	728	-62.234	48.817	20.746	1.00	68.96
ATOM	5627	CA	PRO	728	-60.775	50.431	21.793	1.00	92.42
ATOM	5628	CB	PRO	728	-62.038	50.180	22.619	1.00	65.01
ATOM	5629	CG	PRO	728	-63.045	49.765	21.589	1.00	65.00
ATOM	5630	C	PRO	728	-59.525	49.997	22.544	1.00	92.07
ATOM	5631	O	PRO	728	-59.280	48.799	22.717	1.00	69.24
ATOM	5632	N	VAL	729	-58.701	50.968	22.915	1.00	50.62
ATOM	5633	CA	VAL	729	-57.475	50.679	23.647	1.00	49.60
ATOM	5634	CB	VAL	729	-56.523	51.903	23.694	1.00	35.20
ATOM	5635	CG1	VAL	729	-55.200	51.517	24.344	1.00	31.99
ATOM	5636	CG2	VAL	729	-56.286	52.455	22.299	1.00	44.80
ATOM	5637	C	VAL	729	-57.821	50.283	25.076	1.00	50.41
ATOM	5638	O	VAL	729	-58.174	51.130	25.885	1.00	39.21

ATOM	5639	N	VAL	730	-57.753	48.990	25.369	1.00	43.91
ATOM	5640	CA	VAL	730	-58.045	48.496	26.709	1.00	47.36
ATOM	5641	CB	VAL	730	-58.659	47.073	26.662	1.00	21.72
ATOM	5642	CG1	VAL	730	-59.018	46.600	28.066	1.00	26.44
ATOM	5643	CG2	VAL	730	-59.888	47.057	25.762	1.00	15.10
ATOM	5644	C	VAL	730	-56.747	48.486	27.528	1.00	53.94
ATOM	5645	O	VAL	730	-55.742	47.910	27.103	1.00	36.55
ATOM	5646	N	SER	731	-56.767	49.161	28.680	1.00	82.84
ATOM	5647	CA	SER	731	-55.599	49.241	29.561	1.00	82.23
ATOM	5648	CB	SER	731	-55.419	50.664	30.086	1.00	70.57
ATOM	5649	OG	SER	731	-54.227	50.773	30.843	1.00	66.75
ATOM	5650	C	SER	731	-55.719	48.277	30.732	1.00	86.20
ATOM	5651	O	SER	731	-56.794	48.130	31.314	1.00	86.25
ATOM	5652	N	HIS	732	-54.598	47.658	31.098	1.00	73.31
ATOM	5653	CA	HIS	732	-54.564	46.686	32.189	1.00	69.88
ATOM	5654	CB	HIS	732	-54.570	45.262	31.614	1.00	65.53
ATOM	5655	CG	HIS	732	-54.583	44.180	32.655	1.00	66.27
ATOM	5656	CD2	HIS	732	-53.821	43.074	32.796	1.00	62.12
ATOM	5657	ND1	HIS	732	-55.463	44.185	33.716	1.00	65.84
ATOM	5658	CE1	HIS	732	-55.234	43.122	34.471	1.00	64.67
ATOM	5659	NE2	HIS	732	-54.247	42.431	33.937	1.00	65.66
ATOM	5660	C	HIS	732	-53.359	46.865	33.112	1.00	68.25
ATOM	5661	O	HIS	732	-52.207	46.740	32.686	1.00	59.46
ATOM	5662	N	LYS	733	-53.637	47.123	34.387	1.00	55.20
ATOM	5663	CA	LYS	733	-52.579	47.303	35.368	1.00	54.71
ATOM	5664	CB	LYS	733	-52.683	48.680	36.041	1.00	59.93
ATOM	5665	CG	LYS	733	-53.878	48.843	36.974	1.00	65.00
ATOM	5666	CD	LYS	733	-53.693	50.025	37.925	1.00	75.24
ATOM	5667	CE	LYS	733	-54.887	50.214	38.868	1.00	78.06
ATOM	5668	NZ	LYS	733	-55.159	49.035	39.741	1.00	81.48
ATOM	5669	C	LYS	733	-52.592	46.209	36.429	1.00	54.40
ATOM	5670	O	LYS	733	-53.649	45.728	36.835	1.00	58.21
ATOM	5671	N	VAL	734	-51.403	45.779	36.832	1.00	60.14
ATOM	5672	CA	VAL	734	-51.269	44.773	37.878	1.00	59.00
ATOM	5673	CB	VAL	734	-50.589	43.493	37.379	1.00	55.13
ATOM	5674	CG1	VAL	734	-51.646	42.513	36.887	1.00	57.73
ATOM	5675	CG2	VAL	734	-49.627	43.818	36.253	1.00	57.42
ATOM	5676	C	VAL	734	-50.481	45.424	39.004	1.00	57.36
ATOM	5677	O	VAL	734	-49.540	46.187	38.750	1.00	38.72
ATOM	5678	N	ASP	735	-50.899	45.149	40.239	1.00	73.28
ATOM	5679	CA	ASP	735	-50.296	45.746	41.428	1.00	78.74
ATOM	5680	CB	ASP	735	-51.348	45.928	42.514	1.00	85.15
ATOM	5681	CG	ASP	735	-52.307	47.040	42.201	1.00	93.11
ATOM	5682	OD1	ASP	735	-53.511	46.752	42.067	1.00	93.20
ATOM	5683	OD2	ASP	735	-51.855	48.200	42.079	1.00	93.20
ATOM	5684	C	ASP	735	-49.069	45.142	42.065	1.00	75.18
ATOM	5685	O	ASP	735	-49.024	43.948	42.353	1.00	76.47
ATOM	5686	N	LEU	736	-48.107	46.018	42.352	1.00	49.90
ATOM	5687	CA	LEU	736	-46.866	45.648	43.012	1.00	37.58
ATOM	5688	CB	LEU	736	-45.884	46.809	42.990	1.00	16.53
ATOM	5689	CG	LEU	736	-45.344	47.078	41.585	1.00	24.29
ATOM	5690	CD1	LEU	736	-44.892	48.535	41.415	1.00	23.69
ATOM	5691	CD2	LEU	736	-44.205	46.116	41.305	1.00	30.99
ATOM	5692	C	LEU	736	-47.213	45.307	44.444	1.00	43.28
ATOM	5693	O	LEU	736	-48.212	45.795	44.988	1.00	38.97
ATOM	5694	N	ALA	737	-46.389	44.459	45.044	1.00	52.67
ATOM	5695	CA	ALA	737	-46.603	44.017	46.409	1.00	54.43

ATOM	5696	CB	ALA	737	-47.343	42.693	46.406	1.00	35.66
ATOM	5697	C	ALA	737	-45.273	43.886	47.133	1.00	51.67
ATOM	5698	O	ALA	737	-44.220	43.772	46.501	1.00	31.10
ATOM	5699	N	VAL	738	-45.336	43.892	48.462	1.00	18.74
ATOM	5700	CA	VAL	738	-44.142	43.795	49.298	1.00	10.08
ATOM	5701	CB	VAL	738	-44.127	44.921	50.355	1.00	20.04
ATOM	5702	CG1	VAL	738	-42.806	44.928	51.100	1.00	17.48
ATOM	5703	CG2	VAL	738	-44.395	46.265	49.703	1.00	20.60
ATOM	5704	C	VAL	738	-43.983	42.446	50.017	1.00	7.30
ATOM	5705	O	VAL	738	-44.857	42.019	50.773	1.00	14.76
ATOM	5706	N	LEU	739	-42.855	41.784	49.787	1.00	40.42
ATOM	5707	CA	LEU	739	-42.595	40.507	50.432	1.00	37.09
ATOM	5708	CB	LEU	739	-42.964	39.343	49.512	1.00	17.56
ATOM	5709	CG	LEU	739	-43.262	38.055	50.284	1.00	16.85
ATOM	5710	CD1	LEU	739	-44.408	38.318	51.237	1.00	26.36
ATOM	5711	CD2	LEU	739	-43.615	36.918	49.361	1.00	25.14
ATOM	5712	C	LEU	739	-41.132	40.419	50.853	1.00	38.62
ATOM	5713	O	LEU	739	-40.231	40.582	50.036	1.00	22.17
ATOM	5714	N	ALA	740	-40.904	40.180	52.141	1.00	33.58
ATOM	5715	CA	ALA	740	-39.553	40.095	52.667	1.00	37.55
ATOM	5716	CB	ALA	740	-39.090	41.453	53.149	1.00	20.63
ATOM	5717	C	ALA	740	-39.473	39.091	53.795	1.00	44.62
ATOM	5718	O	ALA	740	-39.645	39.436	54.966	1.00	35.12
ATOM	5719	N	ALA	741	-39.237	37.837	53.431	1.00	27.90
ATOM	5720	CA	ALA	741	-39.108	36.773	54.408	1.00	20.37
ATOM	5721	CB	ALA	741	-38.972	35.430	53.699	1.00	51.53
ATOM	5722	C	ALA	741	-37.861	37.067	55.224	1.00	7.38
ATOM	5723	O	ALA	741	-36.740	36.907	54.733	1.00	32.39
ATOM	5724	N	VAL	742	-38.052	37.585	56.431	1.00	2.00
ATOM	5725	CA	VAL	742	-36.906	37.889	57.278	1.00	7.72
ATOM	5726	CB	VAL	742	-37.002	39.320	57.895	1.00	13.36
ATOM	5727	CG1	VAL	742	-35.686	39.718	58.528	1.00	5.39
ATOM	5728	CG2	VAL	742	-37.337	40.335	56.817	1.00	20.00
ATOM	5729	C	VAL	742	-36.864	36.791	58.338	1.00	12.44
ATOM	5730	O	VAL	742	-37.905	36.252	58.708	1.00	18.27
ATOM	5731	N	GLU	743	-35.667	36.406	58.775	1.00	20.31
ATOM	5732	CA	GLU	743	-35.527	35.334	59.768	1.00	22.03
ATOM	5733	CB	GLU	743	-35.336	33.986	59.067	1.00	39.29
ATOM	5734	CG	GLU	743	-34.057	33.912	58.229	1.00	49.10
ATOM	5735	CD	GLU	743	-33.551	32.498	58.037	1.00	55.85
ATOM	5736	OE1	GLU	743	-33.434	31.768	59.044	1.00	66.36
ATOM	5737	OE2	GLU	743	-33.251	32.118	56.886	1.00	60.32
ATOM	5738	C	GLU	743	-34.339	35.554	60.686	1.00	16.03
ATOM	5739	O	GLU	743	-33.405	36.279	60.341	1.00	18.89
ATOM	5740	N	ILE	744	-34.332	34.846	61.809	1.00	25.92
ATOM	5741	CA	ILE	744	-33.245	34.997	62.760	1.00	29.11
ATOM	5742	CB	ILE	744	-33.684	35.894	63.960	1.00	25.19
ATOM	5743	CG2	ILE	744	-34.845	35.248	64.722	1.00	17.63
ATOM	5744	CG1	ILE	744	-32.473	36.236	64.848	1.00	32.86
ATOM	5745	CD1	ILE	744	-32.737	37.320	65.888	1.00	38.28
ATOM	5746	C	ILE	744	-32.603	33.689	63.245	1.00	37.42
ATOM	5747	O	ILE	744	-33.193	32.944	64.030	1.00	36.55
ATOM	5748	N	ARG	745	-31.393	33.417	62.751	1.00	5.21
ATOM	5749	CA	ARG	745	-30.642	32.230	63.132	1.00	3.59
ATOM	5750	CB	ARG	745	-29.835	31.689	61.950	1.00	41.94
ATOM	5751	CG	ARG	745	-30.560	31.639	60.621	1.00	49.78
ATOM	5752	CD	ARG	745	-30.109	30.440	59.786	1.00	62.82

ATOM	5753	NE	ARG	745	-30.956	29.263	60.017	1.00	74.50
ATOM	5754	CZ	ARG	745	-30.919	28.487	61.104	1.00	81.57
ATOM	5755	NH1	ARG	745	-30.062	28.735	62.092	1.00	77.27
ATOM	5756	NH2	ARG	745	-31.782	27.484	61.232	1.00	78.65
ATOM	5757	C	ARG	745	-29.682	32.598	64.262	1.00	2.00
ATOM	5758	O	ARG	745	-29.136	33.701	64.291	1.00	32.20
ATOM	5759	N	GLY	746	-29.471	31.656	65.179	1.00	37.09
ATOM	5760	CA	GLY	746	-28.569	31.856	66.305	1.00	33.50
ATOM	5761	C	GLY	746	-27.737	30.606	66.516	1.00	31.92
ATOM	5762	O	GLY	746	-28.127	29.527	66.070	1.00	10.26
ATOM	5763	N	VAL	747	-26.590	30.740	67.180	1.00	8.45
ATOM	5764	CA	VAL	747	-25.696	29.594	67.432	1.00	2.00
ATOM	5765	CB	VAL	747	-24.833	29.249	66.187	1.00	9.57
ATOM	5766	CG1	VAL	747	-23.596	30.148	66.109	1.00	12.01
ATOM	5767	CG2	VAL	747	-24.439	27.786	66.212	1.00	17.00
ATOM	5768	C	VAL	747	-24.749	29.871	68.597	1.00	5.14
ATOM	5769	O	VAL	747	-24.569	31.018	68.996	1.00	20.59
ATOM	5770	N	SER	748	-24.149	28.815	69.139	1.00	39.83
ATOM	5771	CA	SER	748	-23.205	28.936	70.247	1.00	41.94
ATOM	5772	CB	SER	748	-23.776	28.263	71.494	1.00	2.00
ATOM	5773	OG	SER	748	-22.858	28.334	72.561	1.00	16.44
ATOM	5774	C	SER	748	-21.893	28.260	69.851	1.00	56.38
ATOM	5775	O	SER	748	-21.914	27.118	69.373	1.00	30.88
ATOM	5776	N	SER	749	-20.768	28.968	70.006	1.00	35.13
ATOM	5777	CA	SER	749	-19.460	28.407	69.669	1.00	38.60
ATOM	5778	CB	SER	749	-18.338	29.420	69.888	1.00	83.67
ATOM	5779	OG	SER	749	-17.074	28.799	69.756	1.00	96.90
ATOM	5780	C	SER	749	-19.298	27.155	70.528	1.00	43.60
ATOM	5781	O	SER	749	-19.475	26.048	70.013	1.00	100.00
ATOM	5782	N	PRO	750	-18.933	27.282	71.825	1.00	22.71
ATOM	5783	CD	PRO	750	-18.288	28.311	72.664	1.00	42.10
ATOM	5784	CA	PRO	750	-18.859	25.967	72.471	1.00	13.50
ATOM	5785	CB	PRO	750	-17.822	26.183	73.578	1.00	23.88
ATOM	5786	CG	PRO	750	-18.045	27.575	73.975	1.00	35.94
ATOM	5787	C	PRO	750	-20.253	25.647	73.015	1.00	11.09
ATOM	5788	O	PRO	750	-20.520	25.856	74.195	1.00	44.36
ATOM	5789	N	ASP	751	-21.138	25.143	72.152	1.00	2.06
ATOM	5790	CA	ASP	751	-22.518	24.818	72.548	1.00	7.35
ATOM	5791	CB	ASP	751	-23.276	24.133	71.400	1.00	38.77
ATOM	5792	CG	ASP	751	-23.031	22.637	71.340	1.00	56.81
ATOM	5793	OD1	ASP	751	-23.967	21.868	71.643	1.00	68.22
ATOM	5794	OD2	ASP	751	-21.903	22.235	70.989	1.00	72.80
ATOM	5795	C	ASP	751	-22.637	23.968	73.816	1.00	3.56
ATOM	5796	O	ASP	751	-23.665	23.994	74.503	1.00	35.38
ATOM	5797	N	HIS	752	-21.579	23.222	74.117	1.00	32.96
ATOM	5798	CA	HIS	752	-21.552	22.364	75.286	1.00	38.64
ATOM	5799	CB	HIS	752	-21.631	20.904	74.849	1.00	50.98
ATOM	5800	CG	HIS	752	-22.361	20.024	75.817	1.00	65.47
ATOM	5801	CD2	HIS	752	-22.603	20.162	77.139	1.00	67.01
ATOM	5802	ND1	HIS	752	-22.955	18.841	75.437	1.00	65.51
ATOM	5803	CE1	HIS	752	-23.534	18.284	76.488	1.00	67.35
ATOM	5804	NE2	HIS	752	-23.333	19.069	77.536	1.00	68.18
ATOM	5805	C	HIS	752	-20.272	22.595	76.066	1.00	37.35
ATOM	5806	O	HIS	752	-19.180	22.417	75.534	1.00	52.01
ATOM	5807	N	ILE	753	-20.417	23.037	77.313	1.00	10.86
ATOM	5808	CA	ILE	753	-19.277	23.280	78.207	1.00	9.63
ATOM	5809	CB	ILE	753	-19.290	24.731	78.778	1.00	18.52

ATOM	5810	CG2	ILE	753	-18.254	24.897	79.899	1.00	14.12
ATOM	5811	CG1	ILE	753	-19.032	25.744	77.654	1.00	29.97
ATOM	5812	CD1	ILE	753	-17.637	25.680	77.035	1.00	38.27
ATOM	5813	C	ILE	753	-19.314	22.286	79.371	1.00	15.94
ATOM	5814	O	ILE	753	-20.228	22.322	80.181	1.00	22.90
ATOM	5815	N	PHE	754	-18.336	21.387	79.441	1.00	32.49
ATOM	5816	CA	PHE	754	-18.307	20.404	80.523	1.00	31.19
ATOM	5817	CB	PHE	754	-17.669	19.092	80.070	1.00	10.66
ATOM	5818	CG	PHE	754	-18.426	18.412	78.957	1.00	2.64
ATOM	5819	CD1	PHE	754	-18.104	18.666	77.614	1.00	2.00
ATOM	5820	CD2	PHE	754	-19.452	17.513	79.241	1.00	2.00
ATOM	5821	CE1	PHE	754	-18.796	18.029	76.571	1.00	13.11
ATOM	5822	CE2	PHE	754	-20.147	16.872	78.212	1.00	3.71
ATOM	5823	CZ	PHE	754	-19.818	17.129	76.876	1.00	5.63
ATOM	5824	C	PHE	754	-17.625	20.968	81.754	1.00	30.90
ATOM	5825	O	PHE	754	-16.415	21.241	81.762	1.00	18.96
ATOM	5826	N	LEU	755	-18.433	21.083	82.804	1.00	68.26
ATOM	5827	CA	LEU	755	-18.042	21.660	84.082	1.00	77.62
ATOM	5828	CB	LEU	755	-19.275	21.903	84.957	1.00	100.00
ATOM	5829	CG	LEU	755	-19.188	23.135	85.869	1.00	100.00
ATOM	5830	CD1	LEU	755	-18.806	24.375	85.067	1.00	96.07
ATOM	5831	CD2	LEU	755	-20.515	23.347	86.565	1.00	100.00
ATOM	5832	C	LEU	755	-16.904	21.078	84.912	1.00	77.88
ATOM	5833	O	LEU	755	-16.395	21.772	85.796	1.00	100.00
ATOM	5834	N	PRO	756	-16.534	19.794	84.718	1.00	50.38
ATOM	5835	CD	PRO	756	-17.166	18.672	83.994	1.00	49.22
ATOM	5836	CA	PRO	756	-15.416	19.313	85.537	1.00	51.28
ATOM	5837	CB	PRO	756	-15.110	17.964	84.898	1.00	55.28
ATOM	5838	CG	PRO	756	-16.483	17.454	84.596	1.00	52.00
ATOM	5839	C	PRO	756	-14.230	20.297	85.427	1.00	51.49
ATOM	5840	O	PRO	756	-13.352	20.319	86.282	1.00	39.44
ATOM	5841	N	ILE	757	-14.290	21.149	84.395	1.00	41.93
ATOM	5842	CA	ILE	757	-13.331	22.214	84.065	1.00	53.08
ATOM	5843	CB	ILE	757	-13.708	23.581	84.745	1.00	70.51
ATOM	5844	CG2	ILE	757	-13.646	23.484	86.269	1.00	69.44
ATOM	5845	CG1	ILE	757	-12.791	24.707	84.248	1.00	80.51
ATOM	5846	CD1	ILE	757	-13.125	25.216	82.869	1.00	84.90
ATOM	5847	C	ILE	757	-11.844	21.938	84.239	1.00	61.14
ATOM	5848	O	ILE	757	-11.264	22.201	85.295	1.00	80.97
ATOM	5849	N	PRO	758	-11.190	21.464	83.166	1.00	100.00
ATOM	5850	CD	PRO	758	-11.696	21.312	81.791	1.00	70.49
ATOM	5851	CA	PRO	758	-9.759	21.167	83.221	1.00	100.00
ATOM	5852	CB	PRO	758	-9.463	20.653	81.811	1.00	69.92
ATOM	5853	CG	PRO	758	-10.425	21.417	80.974	1.00	72.90
ATOM	5854	C	PRO	758	-8.986	22.437	83.523	1.00	100.00
ATOM	5855	O	PRO	758	-9.225	23.474	82.907	1.00	65.08
ATOM	5856	N	ASN	759	-8.134	22.362	84.539	1.00	86.61
ATOM	5857	CA	ASN	759	-7.299	23.477	84.954	1.00	91.21
ATOM	5858	CB	ASN	759	-6.160	23.695	83.952	1.00	100.00
ATOM	5859	CG	ASN	759	-5.127	22.584	83.987	1.00	100.00
ATOM	5860	OD1	ASN	759	-4.477	22.298	82.981	1.00	100.00
ATOM	5861	ND2	ASN	759	-4.958	21.963	85.152	1.00	100.00
ATOM	5862	C	ASN	759	-8.025	24.792	85.186	1.00	91.21
ATOM	5863	O	ASN	759	-8.403	25.492	84.244	1.00	100.00
ATOM	5864	N	TRP	760	-8.217	25.122	86.454	1.00	59.36
ATOM	5865	CA	TRP	760	-8.850	26.374	86.820	1.00	59.36
ATOM	5866	CB	TRP	760	-10.363	26.347	86.587	1.00	78.12

ATOM	5867	CG	TRP	760	-11.017	27.611	87.069	1.00	78.12
ATOM	5868	CD2	TRP	760	-11.873	27.752	88.208	1.00	78.12
ATOM	5869	CE2	TRP	760	-12.157	29.131	88.347	1.00	78.12
ATOM	5870	CE3	TRP	760	-12.420	26.856	89.132	1.00	73.01
ATOM	5871	CD1	TRP	760	-10.834	28.869	86.569	1.00	78.12
ATOM	5872	NE1	TRP	760	-11.511	29.787	87.334	1.00	78.12
ATOM	5873	CZ2	TRP	760	-12.967	29.629	89.375	1.00	78.12
ATOM	5874	CZ3	TRP	760	-13.225	27.354	90.156	1.00	73.06
ATOM	5875	CH2	TRP	760	-13.488	28.727	90.268	1.00	74.27
ATOM	5876	C	TRP	760	-8.558	26.667	88.274	1.00	58.84
ATOM	5877	O	TRP	760	-8.674	25.790	89.127	1.00	78.12
ATOM	5878	N	GLU	761	-8.143	27.897	88.541	1.00	87.47
ATOM	5879	CA	GLU	761	-7.839	28.320	89.897	1.00	89.08
ATOM	5880	CB	GLU	761	-6.360	28.712	90.030	1.00	100.00
ATOM	5881	CG	GLU	761	-5.374	27.546	89.934	1.00	100.00
ATOM	5882	CD	GLU	761	-3.921	27.975	90.117	1.00	100.00
ATOM	5883	OE1	GLU	761	-3.400	27.865	91.249	1.00	100.00
ATOM	5884	OE2	GLU	761	-3.295	28.411	89.126	1.00	100.00
ATOM	5885	C	GLU	761	-8.729	29.500	90.254	1.00	88.20
ATOM	5886	O	GLU	761	-8.828	30.467	89.495	1.00	100.00
ATOM	5887	N	HIS	762	-9.400	29.398	91.396	1.00	93.74
ATOM	5888	CA	HIS	762	-10.283	30.455	91.877	1.00	93.36
ATOM	5889	CB	HIS	762	-11.163	29.903	93.005	1.00	91.77
ATOM	5890	CG	HIS	762	-12.093	30.914	93.605	1.00	93.03
ATOM	5891	CD2	HIS	762	-13.443	31.001	93.584	1.00	93.03
ATOM	5892	ND1	HIS	762	-11.650	31.984	94.349	1.00	91.93
ATOM	5893	CE1	HIS	762	-12.686	32.690	94.763	1.00	93.03
ATOM	5894	NE2	HIS	762	-13.788	32.116	94.313	1.00	93.03
ATOM	5895	C	HIS	762	-9.459	31.656	92.369	1.00	93.84
ATOM	5896	O	HIS	762	-8.924	31.631	93.480	1.00	93.03
ATOM	5897	N	LYS	763	-9.350	32.691	91.535	1.00	96.88
ATOM	5898	CA	LYS	763	-8.596	33.908	91.870	1.00	96.88
ATOM	5899	CB	LYS	763	-8.207	34.660	90.593	1.00	92.12
ATOM	5900	CG	LYS	763	-7.507	33.823	89.543	1.00	92.12
ATOM	5901	CD	LYS	763	-6.165	33.320	90.031	1.00	92.12
ATOM	5902	CE	LYS	763	-5.382	32.689	88.897	1.00	92.12
ATOM	5903	NZ	LYS	763	-6.154	31.604	88.243	1.00	92.12
ATOM	5904	C	LYS	763	-9.403	34.855	92.766	1.00	95.40
ATOM	5905	O	LYS	763	-10.633	34.886	92.690	1.00	87.48
ATOM	5906	N	GLU	764	-8.710	35.635	93.600	1.00	100.00
ATOM	5907	CA	GLU	764	-9.372	36.594	94.496	1.00	100.00
ATOM	5908	CB	GLU	764	-8.339	37.302	95.388	1.00	100.00
ATOM	5909	CG	GLU	764	-8.601	37.170	96.896	1.00	100.00
ATOM	5910	CD	GLU	764	-9.093	38.463	97.553	1.00	100.00
ATOM	5911	OE1	GLU	764	-8.615	38.786	98.665	1.00	100.00
ATOM	5912	OE2	GLU	764	-9.962	39.152	96.972	1.00	100.00
ATOM	5913	C	GLU	764	-10.098	37.604	93.608	1.00	100.00
ATOM	5914	O	GLU	764	-11.264	37.945	93.833	1.00	100.00
ATOM	5915	N	ASN	765	-9.388	38.042	92.575	1.00	96.00
ATOM	5916	CA	ASN	765	-9.908	38.970	91.591	1.00	97.70
ATOM	5917	CB	ASN	765	-9.564	40.409	91.950	1.00	100.00
ATOM	5918	CG	ASN	765	-10.536	40.995	92.945	1.00	100.00
ATOM	5919	OD1	ASN	765	-11.754	40.878	92.781	1.00	100.00
ATOM	5920	ND2	ASN	765	-10.010	41.614	93.995	1.00	100.00
ATOM	5921	C	ASN	765	-9.278	38.587	90.274	1.00	97.23
ATOM	5922	O	ASN	765	-8.064	38.404	90.193	1.00	100.00
ATOM	5923	N	PRO	766	-10.112	38.342	89.254	1.00	40.33

ATOM	5924	CD	PRO	766	-11.580	38.265	89.366	1.00	88.56
ATOM	5925	CA	PRO	766	-9.661	37.958	87.910	1.00	34.76
ATOM	5926	CB	PRO	766	-10.944	37.448	87.257	1.00	87.60
ATOM	5927	CG	PRO	766	-12.011	38.267	87.924	1.00	88.15
ATOM	5928	C	PRO	766	-9.046	39.118	87.130	1.00	32.31
ATOM	5929	O	PRO	766	-9.450	40.270	87.292	1.00	81.70
ATOM	5930	N	GLU	767	-8.041	38.807	86.315	1.00	54.98
ATOM	5931	CA	GLU	767	-7.346	39.807	85.502	1.00	52.75
ATOM	5932	CB	GLU	767	-5.908	40.019	86.000	1.00	100.00
ATOM	5933	CG	GLU	767	-5.758	40.891	87.259	1.00	100.00
ATOM	5934	CD	GLU	767	-6.183	40.199	88.558	1.00	100.00
ATOM	5935	OE1	GLU	767	-5.747	39.050	88.810	1.00	100.00
ATOM	5936	OE2	GLU	767	-6.943	40.817	89.340	1.00	100.00
ATOM	5937	C	GLU	767	-7.323	39.400	84.031	1.00	47.18
ATOM	5938	O	GLU	767	-7.198	40.252	83.145	1.00	94.03
ATOM	5939	N	THR	768	-7.443	38.095	83.784	1.00	64.58
ATOM	5940	CA	THR	768	-7.450	37.536	82.431	1.00	61.22
ATOM	5941	CB	THR	768	-6.111	36.848	82.101	1.00	51.76
ATOM	5942	OG1	THR	768	-5.727	35.994	83.186	1.00	58.69
ATOM	5943	CG2	THR	768	-5.024	37.882	81.855	1.00	51.84
ATOM	5944	C	THR	768	-8.582	36.522	82.248	1.00	54.26
ATOM	5945	O	THR	768	-9.157	36.042	83.227	1.00	35.74
ATOM	5946	N	GLU	769	-8.906	36.213	80.993	1.00	22.76
ATOM	5947	CA	GLU	769	-9.966	35.249	80.681	1.00	23.35
ATOM	5948	CB	GLU	769	-10.064	35.029	79.166	1.00	57.81
ATOM	5949	CG	GLU	769	-10.373	36.266	78.337	1.00	63.45
ATOM	5950	CD	GLU	769	-10.352	35.990	76.832	1.00	69.67
ATOM	5951	OE1	GLU	769	-9.593	36.667	76.101	1.00	73.40
ATOM	5952	OE2	GLU	769	-11.099	35.098	76.375	1.00	70.50
ATOM	5953	C	GLU	769	-9.692	33.893	81.354	1.00	26.91
ATOM	5954	O	GLU	769	-10.604	33.234	81.860	1.00	60.64
ATOM	5955	N	GLU	770	-8.423	33.491	81.337	1.00	50.88
ATOM	5956	CA	GLU	770	-7.973	32.231	81.914	1.00	52.25
ATOM	5957	CB	GLU	770	-6.470	32.048	81.686	1.00	72.57
ATOM	5958	CG	GLU	770	-6.072	31.910	80.223	1.00	87.93
ATOM	5959	CD	GLU	770	-6.482	33.112	79.385	1.00	94.47
ATOM	5960	OE1	GLU	770	-7.480	33.005	78.647	1.00	94.47
ATOM	5961	OE2	GLU	770	-5.824	34.169	79.475	1.00	94.47
ATOM	5962	C	GLU	770	-8.283	32.161	83.395	1.00	49.74
ATOM	5963	O	GLU	770	-8.489	31.079	83.936	1.00	58.48
ATOM	5964	N	ASP	771	-8.303	33.316	84.052	1.00	41.87
ATOM	5965	CA	ASP	771	-8.608	33.381	85.478	1.00	47.20
ATOM	5966	CB	ASP	771	-8.119	34.706	86.071	1.00	80.00
ATOM	5967	CG	ASP	771	-6.609	34.829	86.077	1.00	90.75
ATOM	5968	OD1	ASP	771	-6.079	35.480	87.003	1.00	90.00
ATOM	5969	OD2	ASP	771	-5.949	34.288	85.164	1.00	100.00
ATOM	5970	C	ASP	771	-10.117	33.279	85.680	1.00	52.88
ATOM	5971	O	ASP	771	-10.591	33.041	86.794	1.00	86.89
ATOM	5972	N	VAL	772	-10.857	33.439	84.584	1.00	94.97
ATOM	5973	CA	VAL	772	-12.316	33.410	84.599	1.00	91.78
ATOM	5974	CB	VAL	772	-12.878	34.563	83.745	1.00	57.71
ATOM	5975	CG1	VAL	772	-14.405	34.543	83.758	1.00	64.47
ATOM	5976	CG2	VAL	772	-12.338	35.899	84.250	1.00	60.28
ATOM	5977	C	VAL	772	-12.954	32.100	84.137	1.00	76.60
ATOM	5978	O	VAL	772	-13.688	31.461	84.896	1.00	28.12
ATOM	5979	N	GLY	773	-12.724	31.743	82.875	1.00	28.59
ATOM	5980	CA	GLY	773	-13.294	30.522	82.336	1.00	25.24

ATOM	5981	C	GLY	773	-13.167	30.375	80.829	1.00	22.56
ATOM	5982	O	GLY	773	-12.312	31.006	80.194	1.00	39.45
ATOM	5983	N	PRO	774	-13.984	29.494	80.235	1.00	6.95
ATOM	5984	CD	PRO	774	-14.891	28.595	80.957	1.00	28.20
ATOM	5985	CA	PRO	774	-14.014	29.211	78.796	1.00	7.38
ATOM	5986	CB	PRO	774	-14.900	27.962	78.701	1.00	32.61
ATOM	5987	CG	PRO	774	-14.869	27.382	80.076	1.00	38.49
ATOM	5988	C	PRO	774	-14.680	30.357	78.049	1.00	15.97
ATOM	5989	O	PRO	774	-15.366	31.190	78.652	1.00	41.58
ATOM	5990	N	VAL	775	-14.495	30.385	76.733	1.00	38.15
ATOM	5991	CA	VAL	775	-15.109	31.421	75.923	1.00	34.85
ATOM	5992	CB	VAL	775	-14.145	32.035	74.894	1.00	20.13
ATOM	5993	CG1	VAL	775	-14.920	32.868	73.867	1.00	20.20
ATOM	5994	CG2	VAL	775	-13.136	32.903	75.598	1.00	27.43
ATOM	5995	C	VAL	775	-16.325	30.891	75.206	1.00	33.25
ATOM	5996	O	VAL	775	-16.228	30.253	74.155	1.00	24.58
ATOM	5997	N	VAL	776	-17.473	31.107	75.825	1.00	13.72
ATOM	5998	CA	VAL	776	-18.724	30.714	75.231	1.00	13.90
ATOM	5999	CB	VAL	776	-19.778	30.520	76.296	1.00	5.97
ATOM	6000	CG1	VAL	776	-21.050	30.008	75.666	1.00	10.74
ATOM	6001	CG2	VAL	776	-19.266	29.552	77.346	1.00	22.62
ATOM	6002	C	VAL	776	-19.086	31.869	74.290	1.00	19.24
ATOM	6003	O	VAL	776	-19.030	33.044	74.667	1.00	29.28
ATOM	6004	N	GLN	777	-19.428	31.543	73.053	1.00	21.53
ATOM	6005	CA	GLN	777	-19.727	32.588	72.098	1.00	22.79
ATOM	6006	CB	GLN	777	-18.542	32.704	71.132	1.00	39.28
ATOM	6007	CG	GLN	777	-18.729	33.664	69.974	1.00	67.39
ATOM	6008	CD	GLN	777	-17.406	34.100	69.371	1.00	83.40
ATOM	6009	OE1	GLN	777	-16.390	33.417	69.512	1.00	92.35
ATOM	6010	NE2	GLN	777	-17.405	35.258	68.719	1.00	90.12
ATOM	6011	C	GLN	777	-21.045	32.445	71.333	1.00	22.94
ATOM	6012	O	GLN	777	-21.222	31.500	70.567	1.00	35.08
ATOM	6013	N	HIS	778	-21.977	33.373	71.566	1.00	13.84
ATOM	6014	CA	HIS	778	-23.258	33.379	70.852	1.00	9.34
ATOM	6015	CB	HIS	778	-24.391	33.884	71.738	1.00	9.08
ATOM	6016	CG	HIS	778	-24.746	32.945	72.843	1.00	24.20
ATOM	6017	CD2	HIS	778	-25.917	32.726	73.488	1.00	23.00
ATOM	6018	ND1	HIS	778	-23.830	32.082	73.407	1.00	23.20
ATOM	6019	CE1	HIS	778	-24.423	31.372	74.355	1.00	25.00
ATOM	6020	NE2	HIS	778	-25.691	31.745	74.421	1.00	15.94
ATOM	6021	C	HIS	778	-23.167	34.240	69.590	1.00	13.69
ATOM	6022	O	HIS	778	-22.340	35.145	69.495	1.00	18.02
ATOM	6023	N	ILE	779	-23.999	33.929	68.607	1.00	6.82
ATOM	6024	CA	ILE	779	-24.012	34.663	67.355	1.00	3.00
ATOM	6025	CB	ILE	779	-23.087	34.029	66.303	1.00	28.65
ATOM	6026	CG2	ILE	779	-23.307	34.693	64.959	1.00	10.57
ATOM	6027	CG1	ILE	779	-21.620	34.135	66.733	1.00	37.84
ATOM	6028	CD1	ILE	779	-20.652	33.296	65.889	1.00	43.95
ATOM	6029	C	ILE	779	-25.417	34.622	66.792	1.00	7.07
ATOM	6030	O	ILE	779	-25.975	33.548	66.558	1.00	27.05
ATOM	6031	N	TYR	780	-26.005	35.794	66.606	1.00	14.66
ATOM	6032	CA	TYR	780	-27.335	35.867	66.041	1.00	7.30
ATOM	6033	CB	TYR	780	-28.276	36.641	66.964	1.00	2.00
ATOM	6034	CG	TYR	780	-28.668	35.915	68.244	1.00	2.00
ATOM	6035	CD1	TYR	780	-27.934	36.096	69.421	1.00	2.00
ATOM	6036	CE1	TYR	780	-28.323	35.478	70.621	1.00	3.68
ATOM	6037	CD2	TYR	780	-29.807	35.079	68.289	1.00	4.15

ATOM	6038	CE2	TYR	780	-30.213	34.452	69.486	1.00	6.18
ATOM	6039	CZ	TYR	780	-29.460	34.656	70.651	1.00	5.51
ATOM	6040	OH	TYR	780	-29.828	34.064	71.851	1.00	5.58
ATOM	6041	C	TYR	780	-27.224	36.521	64.666	1.00	5.77
ATOM	6042	O	TYR	780	-26.406	37.428	64.454	1.00	2.00
ATOM	6043	N	GLU	781	-28.008	36.010	63.722	1.00	2.00
ATOM	6044	CA	GLU	781	-27.992	36.529	62.376	1.00	2.00
ATOM	6045	CB	GLU	781	-27.295	35.552	61.446	1.00	2.00
ATOM	6046	CG	GLU	781	-27.120	36.103	60.061	1.00	2.00
ATOM	6047	CD	GLU	781	-26.830	35.061	59.014	1.00	13.31
ATOM	6048	OE1	GLU	781	-26.907	35.431	57.832	1.00	11.90
ATOM	6049	OE2	GLU	781	-26.537	33.890	59.348	1.00	24.70
ATOM	6050	C	GLU	781	-29.377	36.825	61.835	1.00	2.00
ATOM	6051	O	GLU	781	-30.184	35.919	61.651	1.00	2.00
ATOM	6052	N	LEU	782	-29.634	38.111	61.593	1.00	17.82
ATOM	6053	CA	LEU	782	-30.892	38.591	61.023	1.00	12.29
ATOM	6054	CB	LEU	782	-31.201	40.013	61.521	1.00	6.08
ATOM	6055	CG	LEU	782	-32.445	40.744	60.968	1.00	12.14
ATOM	6056	CD1	LEU	782	-33.693	39.931	61.264	1.00	15.80
ATOM	6057	CD2	LEU	782	-32.577	42.152	61.562	1.00	19.65
ATOM	6058	C	LEU	782	-30.666	38.617	59.514	1.00	13.16
ATOM	6059	O	LEU	782	-29.792	39.338	59.043	1.00	14.91
ATOM	6060	N	ARG	783	-31.441	37.831	58.767	1.00	6.18
ATOM	6061	CA	ARG	783	-31.295	37.766	57.312	1.00	6.35
ATOM	6062	CB	ARG	783	-30.610	36.456	56.922	1.00	11.48
ATOM	6063	CG	ARG	783	-30.514	36.238	55.429	1.00	16.38
ATOM	6064	CD	ARG	783	-29.430	35.241	55.077	1.00	22.23
ATOM	6065	NE	ARG	783	-28.365	35.858	54.287	1.00	20.85
ATOM	6066	CZ	ARG	783	-28.347	35.899	52.957	1.00	24.51
ATOM	6067	NH1	ARG	783	-29.338	35.348	52.255	1.00	15.53
ATOM	6068	NH2	ARG	783	-27.355	36.524	52.331	1.00	29.03
ATOM	6069	C	ARG	783	-32.587	37.925	56.503	1.00	13.57
ATOM	6070	O	ARG	783	-33.599	37.283	56.793	1.00	16.07
ATOM	6071	N	ASN	784	-32.551	38.798	55.498	1.00	21.77
ATOM	6072	CA	ASN	784	-33.713	39.007	54.639	1.00	29.32
ATOM	6073	CB	ASN	784	-33.933	40.502	54.333	1.00	18.31
ATOM	6074	CG	ASN	784	-35.191	40.767	53.478	1.00	18.68
ATOM	6075	OD1	ASN	784	-36.104	39.938	53.412	1.00	17.92
ATOM	6076	ND2	ASN	784	-35.235	41.935	52.832	1.00	4.72
ATOM	6077	C	ASN	784	-33.448	38.233	53.356	1.00	33.87
ATOM	6078	O	ASN	784	-32.419	38.434	52.689	1.00	16.35
ATOM	6079	N	ASN	785	-34.350	37.299	53.064	1.00	49.50
ATOM	6080	CA	ASN	785	-34.246	36.464	51.875	1.00	52.01
ATOM	6081	CB	ASN	785	-34.322	34.981	52.239	1.00	36.37
ATOM	6082	CG	ASN	785	-33.466	34.627	53.428	1.00	36.39
ATOM	6083	OD1	ASN	785	-32.294	34.242	53.291	1.00	34.06
ATOM	6084	ND2	ASN	785	-34.046	34.761	54.613	1.00	25.72
ATOM	6085	C	ASN	785	-35.403	36.778	50.960	1.00	56.02
ATOM	6086	O	ASN	785	-35.378	36.421	49.786	1.00	48.96
ATOM	6087	N	GLY	786	-36.434	37.411	51.515	1.00	27.80
ATOM	6088	CA	GLY	786	-37.606	37.755	50.732	1.00	19.03
ATOM	6089	C	GLY	786	-37.221	38.627	49.562	1.00	15.71
ATOM	6090	O	GLY	786	-36.113	39.164	49.528	1.00	52.82
ATOM	6091	N	PRO	787	-38.112	38.780	48.578	1.00	26.86
ATOM	6092	CD	PRO	787	-39.459	38.189	48.573	1.00	23.22
ATOM	6093	CA	PRO	787	-37.883	39.596	47.376	1.00	23.44
ATOM	6094	CB	PRO	787	-39.209	39.478	46.618	1.00	21.22

ATOM	6095	CG	PRO	787	-39.791	38.204	47.111	1.00	23.90
ATOM	6096	C	PRO	787	-37.629	41.055	47.747	1.00	28.82
ATOM	6097	O	PRO	787	-36.534	41.592	47.538	1.00	29.43
ATOM	6098	N	SER	788	-38.663	41.678	48.312	1.00	21.59
ATOM	6099	CA	SER	788	-38.627	43.070	48.727	1.00	21.06
ATOM	6100	CB	SER	788	-40.023	43.550	49.145	1.00	27.13
ATOM	6101	OG	SER	788	-40.956	43.466	48.081	1.00	26.58
ATOM	6102	C	SER	788	-37.684	43.276	49.872	1.00	21.79
ATOM	6103	O	SER	788	-37.571	42.439	50.763	1.00	23.86
ATOM	6104	N	SER	789	-36.990	44.397	49.826	1.00	30.32
ATOM	6105	CA	SER	789	-36.075	44.756	50.883	1.00	30.39
ATOM	6106	CB	SER	789	-34.896	45.528	50.287	1.00	15.60
ATOM	6107	OG	SER	789	-35.307	46.384	49.239	1.00	18.37
ATOM	6108	C	SER	789	-36.828	45.609	51.921	1.00	30.91
ATOM	6109	O	SER	789	-37.951	46.071	51.666	1.00	14.85
ATOM	6110	N	PHE	790	-36.276	45.705	53.128	1.00	30.20
ATOM	6111	CA	PHE	790	-36.880	46.544	54.156	1.00	30.41
ATOM	6112	CB	PHE	790	-37.258	45.750	55.424	1.00	15.31
ATOM	6113	CG	PHE	790	-36.085	45.260	56.262	1.00	22.37
ATOM	6114	CD1	PHE	790	-35.152	46.152	56.810	1.00	28.94
ATOM	6115	CD2	PHE	790	-35.994	43.908	56.606	1.00	23.23
ATOM	6116	CE1	PHE	790	-34.157	45.707	57.681	1.00	24.52
ATOM	6117	CE2	PHE	790	-35.006	43.457	57.472	1.00	29.41
ATOM	6118	CZ	PHE	790	-34.091	44.359	58.015	1.00	21.61
ATOM	6119	C	PHE	790	-35.900	47.685	54.410	1.00	28.85
ATOM	6120	O	PHE	790	-34.761	47.618	53.957	1.00	16.00
ATOM	6121	N	SER	791	-36.329	48.749	55.079	1.00	37.24
ATOM	6122	CA	SER	791	-35.415	49.865	55.297	1.00	35.53
ATOM	6123	CB	SER	791	-35.987	51.197	54.743	1.00	14.73
ATOM	6124	OG	SER	791	-37.205	51.602	55.353	1.00	25.54
ATOM	6125	C	SER	791	-34.911	50.021	56.718	1.00	31.28
ATOM	6126	O	SER	791	-33.857	50.612	56.926	1.00	4.75
ATOM	6127	N	LYS	792	-35.657	49.491	57.684	1.00	2.00
ATOM	6128	CA	LYS	792	-35.289	49.566	59.105	1.00	4.55
ATOM	6129	CB	LYS	792	-35.682	50.903	59.737	1.00	23.76
ATOM	6130	CG	LYS	792	-34.742	52.034	59.415	1.00	43.56
ATOM	6131	CD	LYS	792	-35.093	53.297	60.176	1.00	55.12
ATOM	6132	CE	LYS	792	-34.207	54.466	59.745	1.00	61.28
ATOM	6133	NZ	LYS	792	-32.742	54.197	59.920	1.00	57.78
ATOM	6134	C	LYS	792	-35.951	48.454	59.892	1.00	4.12
ATOM	6135	O	LYS	792	-37.023	47.948	59.532	1.00	26.55
ATOM	6136	N	ALA	793	-35.319	48.089	60.990	1.00	2.00
ATOM	6137	CA	ALA	793	-35.859	47.045	61.814	1.00	2.00
ATOM	6138	CB	ALA	793	-35.553	45.724	61.196	1.00	2.00
ATOM	6139	C	ALA	793	-35.239	47.163	63.192	1.00	2.00
ATOM	6140	O	ALA	793	-34.312	47.955	63.400	1.00	9.70
ATOM	6141	N	MET	794	-35.769	46.406	64.145	1.00	8.67
ATOM	6142	CA	MET	794	-35.245	46.445	65.508	1.00	21.29
ATOM	6143	CB	MET	794	-36.303	46.982	66.490	1.00	20.91
ATOM	6144	CG	MET	794	-36.494	48.487	66.473	1.00	12.64
ATOM	6145	SD	MET	794	-34.931	49.367	66.552	1.00	28.79
ATOM	6146	CE	MET	794	-34.603	49.446	68.346	1.00	2.00
ATOM	6147	C	MET	794	-34.796	45.070	65.967	1.00	21.51
ATOM	6148	O	MET	794	-35.437	44.074	65.643	1.00	17.73
ATOM	6149	N	LEU	795	-33.707	45.018	66.728	1.00	2.00
ATOM	6150	CA	LEU	795	-33.217	43.738	67.229	1.00	4.04
ATOM	6151	CB	LEU	795	-31.882	43.360	66.571	1.00	8.27

ATOM	6152	CG	LEU	795	-31.329	41.956	66.832	1.00	11.60
ATOM	6153	CD1	LEU	795	-30.651	41.432	65.593	1.00	13.40
ATOM	6154	CD2	LEU	795	-30.359	41.970	67.996	1.00	19.12
ATOM	6155	C	LEU	795	-33.075	43.830	68.735	1.00	6.83
ATOM	6156	O	LEU	795	-32.491	44.793	69.248	1.00	9.82
ATOM	6157	N	HIS	796	-33.629	42.839	69.436	1.00	11.14
ATOM	6158	CA	HIS	796	-33.589	42.800	70.895	1.00	18.01
ATOM	6159	CB	HIS	796	-34.982	43.028	71.499	1.00	44.10
ATOM	6160	CG	HIS	796	-35.544	44.396	71.251	1.00	57.42
ATOM	6161	CD2	HIS	796	-36.328	44.870	70.263	1.00	55.09
ATOM	6162	ND1	HIS	796	-35.333	45.451	72.118	1.00	59.91
ATOM	6163	CE1	HIS	796	-35.971	46.515	71.668	1.00	59.89
ATOM	6164	NE2	HIS	796	-36.584	46.193	70.542	1.00	65.48
ATOM	6165	C	HIS	796	-33.057	41.481	71.410	1.00	22.57
ATOM	6166	O	HIS	796	-33.693	40.436	71.268	1.00	37.90
ATOM	6167	N	LEU	797	-31.900	41.546	72.048	1.00	17.41
ATOM	6168	CA	LEU	797	-31.282	40.367	72.615	1.00	7.17
ATOM	6169	CB	LEU	797	-29.820	40.300	72.207	1.00	6.25
ATOM	6170	CG	LEU	797	-29.051	39.191	72.911	1.00	13.19
ATOM	6171	CD1	LEU	797	-29.625	37.869	72.460	1.00	20.76
ATOM	6172	CD2	LEU	797	-27.564	39.276	72.618	1.00	9.46
ATOM	6173	C	LEU	797	-31.362	40.443	74.125	1.00	8.16
ATOM	6174	O	LEU	797	-31.120	41.498	74.719	1.00	7.04
ATOM	6175	N	GLN	798	-31.748	39.329	74.733	1.00	18.30
ATOM	6176	CA	GLN	798	-31.821	39.225	76.183	1.00	25.89
ATOM	6177	CB	GLN	798	-33.195	38.745	76.627	1.00	31.35
ATOM	6178	CG	GLN	798	-34.209	39.861	76.628	1.00	29.88
ATOM	6179	CD	GLN	798	-35.612	39.374	76.391	1.00	28.64
ATOM	6180	OE1	GLN	798	-36.030	39.199	75.240	1.00	46.41
ATOM	6181	NE2	GLN	798	-36.359	39.160	77.471	1.00	23.58
ATOM	6182	C	GLN	798	-30.719	38.273	76.628	1.00	25.49
ATOM	6183	O	GLN	798	-30.612	37.143	76.141	1.00	28.71
ATOM	6184	N	TRP	799	-29.881	38.760	77.533	1.00	16.72
ATOM	6185	CA	TRP	799	-28.748	37.999	78.022	1.00	19.87
ATOM	6186	CB	TRP	799	-27.485	38.861	77.920	1.00	40.41
ATOM	6187	CG	TRP	799	-26.237	38.073	77.970	1.00	49.95
ATOM	6188	CD2	TRP	799	-25.750	37.188	76.955	1.00	51.01
ATOM	6189	CE2	TRP	799	-24.576	36.592	77.449	1.00	45.21
ATOM	6190	CE3	TRP	799	-26.204	36.837	75.675	1.00	54.14
ATOM	6191	CD1	TRP	799	-25.356	37.991	79.008	1.00	49.51
ATOM	6192	NE1	TRP	799	-24.354	37.098	78.705	1.00	47.75
ATOM	6193	CZ2	TRP	799	-23.843	35.666	76.709	1.00	35.59
ATOM	6194	CZ3	TRP	799	-25.474	35.918	74.941	1.00	47.81
ATOM	6195	CH2	TRP	799	-24.306	35.341	75.463	1.00	43.95
ATOM	6196	C	TRP	799	-28.885	37.476	79.450	1.00	31.40
ATOM	6197	O	TRP	799	-29.305	38.204	80.349	1.00	60.83
ATOM	6198	N	PRO	800	-28.550	36.190	79.668	1.00	33.53
ATOM	6199	CD	PRO	800	-28.218	35.189	78.636	1.00	46.61
ATOM	6200	CA	PRO	800	-28.618	35.564	80.989	1.00	29.89
ATOM	6201	CB	PRO	800	-28.503	34.079	80.653	1.00	41.82
ATOM	6202	CG	PRO	800	-27.626	34.075	79.451	1.00	48.44
ATOM	6203	C	PRO	800	-27.394	36.027	81.775	1.00	37.51
ATOM	6204	O	PRO	800	-26.453	35.258	81.954	1.00	62.32
ATOM	6205	N	TYR	801	-27.399	37.283	82.225	1.00	44.13
ATOM	6206	CA	TYR	801	-26.262	37.853	82.958	1.00	36.03
ATOM	6207	CB	TYR	801	-26.461	39.352	83.208	1.00	41.39
ATOM	6208	CG	TYR	801	-25.263	40.025	83.853	1.00	47.85

ATOM	6209	CD1	TYR	801	-23.985	39.884	83.303	1.00	53.03
ATOM	6210	CE1	TYR	801	-22.886	40.494	83.877	1.00	60.45
ATOM	6211	CD2	TYR	801	-25.408	40.811	84.999	1.00	42.40
ATOM	6212	CE2	TYR	801	-24.310	41.428	85.585	1.00	43.09
ATOM	6213	CZ	TYR	801	-23.050	41.271	85.012	1.00	54.08
ATOM	6214	OH	TYR	801	-21.948	41.888	85.563	1.00	56.66
ATOM	6215	C	TYR	801	-25.898	37.166	84.269	1.00	30.89
ATOM	6216	O	TYR	801	-24.751	36.770	84.465	1.00	39.52
ATOM	6217	N	LYS	802	-26.844	37.095	85.196	1.00	15.58
ATOM	6218	CA	LYS	802	-26.575	36.447	86.465	1.00	16.15
ATOM	6219	CB	LYS	802	-25.765	37.368	87.378	1.00	21.74
ATOM	6220	CG	LYS	802	-26.365	38.713	87.625	1.00	40.44
ATOM	6221	CD	LYS	802	-25.704	39.354	88.822	1.00	52.52
ATOM	6222	CE	LYS	802	-24.201	39.399	88.668	1.00	59.74
ATOM	6223	NZ	LYS	802	-23.581	39.853	89.934	1.00	61.23
ATOM	6224	C	LYS	802	-27.805	35.885	87.190	1.00	17.81
ATOM	6225	O	LYS	802	-28.949	36.195	86.860	1.00	18.33
ATOM	6226	N	TYR	803	-27.547	35.011	88.152	1.00	24.90
ATOM	6227	CA	TYR	803	-28.587	34.378	88.935	1.00	36.82
ATOM	6228	CB	TYR	803	-28.593	32.877	88.639	1.00	43.40
ATOM	6229	CG	TYR	803	-29.749	32.095	89.209	1.00	57.76
ATOM	6230	CD1	TYR	803	-29.535	31.085	90.146	1.00	63.27
ATOM	6231	CE1	TYR	803	-30.599	30.313	90.636	1.00	67.21
ATOM	6232	CD2	TYR	803	-31.055	32.326	88.777	1.00	66.51
ATOM	6233	CE2	TYR	803	-32.124	31.562	89.258	1.00	70.56
ATOM	6234	CZ	TYR	803	-31.890	30.559	90.185	1.00	70.38
ATOM	6235	OH	TYR	803	-32.937	29.795	90.641	1.00	70.56
ATOM	6236	C	TYR	803	-28.249	34.629	90.398	1.00	39.54
ATOM	6237	O	TYR	803	-27.173	34.252	90.875	1.00	32.72
ATOM	6238	N	ASN	804	-29.136	35.340	91.080	1.00	47.03
ATOM	6239	CA	ASN	804	-28.973	35.639	92.496	1.00	48.63
ATOM	6240	CB	ASN	804	-29.202	34.374	93.329	1.00	75.72
ATOM	6241	CG	ASN	804	-30.547	33.737	93.058	1.00	80.09
ATOM	6242	OD1	ASN	804	-31.544	34.427	92.842	1.00	85.56
ATOM	6243	ND2	ASN	804	-30.581	32.412	93.061	1.00	82.19
ATOM	6244	C	ASN	804	-27.639	36.273	92.876	1.00	45.40
ATOM	6245	O	ASN	804	-26.863	35.689	93.635	1.00	71.08
ATOM	6246	N	ASN	805	-27.385	37.471	92.354	1.00	31.90
ATOM	6247	CA	ASN	805	-26.162	38.225	92.647	1.00	33.75
ATOM	6248	CB	ASN	805	-25.973	38.414	94.170	1.00	97.24
ATOM	6249	CG	ASN	805	-27.227	38.925	94.878	1.00	100.00
ATOM	6250	OD1	ASN	805	-27.689	38.328	95.858	1.00	100.00
ATOM	6251	ND2	ASN	805	-27.763	40.044	94.403	1.00	100.00
ATOM	6252	C	ASN	805	-24.917	37.540	92.100	1.00	26.70
ATOM	6253	O	ASN	805	-23.826	38.106	92.144	1.00	79.42
ATOM	6254	N	ASN	806	-25.082	36.331	91.571	1.00	24.43
ATOM	6255	CA	ASN	806	-23.955	35.555	91.061	1.00	22.58
ATOM	6256	CB	ASN	806	-23.977	34.170	91.708	1.00	20.43
ATOM	6257	CG	ASN	806	-24.024	34.237	93.240	1.00	33.59
ATOM	6258	OD1	ASN	806	-24.466	33.292	93.899	1.00	44.37
ATOM	6259	ND2	ASN	806	-23.571	35.356	93.807	1.00	23.90
ATOM	6260	C	ASN	806	-23.902	35.451	89.535	1.00	16.10
ATOM	6261	O	ASN	806	-24.811	34.911	88.915	1.00	6.43
ATOM	6262	N	THR	807	-22.798	35.929	88.959	1.00	13.01
ATOM	6263	CA	THR	807	-22.564	35.965	87.508	1.00	5.22
ATOM	6264	CB	THR	807	-21.269	36.760	87.192	1.00	43.62
ATOM	6265	OG1	THR	807	-21.118	37.830	88.134	1.00	39.37

ATOM	6266	CG2	THR	807	-21.307	37.331	85.774	1.00	30.52
ATOM	6267	C	THR	807	-22.454	34.603	86.805	1.00	10.77
ATOM	6268	O	THR	807	-22.032	33.606	87.417	1.00	70.06
ATOM	6269	N	LEU	808	-22.770	34.607	85.501	1.00	2.00
ATOM	6270	CA	LEU	808	-22.731	33.436	84.608	1.00	2.00
ATOM	6271	CB	LEU	808	-23.974	32.556	84.829	1.00	16.87
ATOM	6272	CG	LEU	808	-25.396	33.146	84.811	1.00	16.70
ATOM	6273	CD1	LEU	808	-26.297	32.477	83.766	1.00	21.25
ATOM	6274	CD2	LEU	808	-25.993	32.976	86.173	1.00	10.96
ATOM	6275	C	LEU	808	-22.680	33.890	83.138	1.00	2.00
ATOM	6276	O	LEU	808	-23.694	34.316	82.603	1.00	38.98
ATOM	6277	N	LEU	809	-21.522	33.792	82.484	1.00	31.42
ATOM	6278	CA	LEU	809	-21.357	34.228	81.079	1.00	33.71
ATOM	6279	CB	LEU	809	-22.522	33.775	80.180	1.00	29.11
ATOM	6280	CG	LEU	809	-22.600	32.349	79.635	1.00	32.91
ATOM	6281	CD1	LEU	809	-23.836	32.218	78.753	1.00	38.03
ATOM	6282	CD2	LEU	809	-21.357	32.021	78.840	1.00	24.26
ATOM	6283	C	LEU	809	-21.170	35.742	80.916	1.00	35.26
ATOM	6284	O	LEU	809	-21.926	36.400	80.195	1.00	30.29
ATOM	6285	N	TYR	810	-20.137	36.267	81.572	1.00	34.42
ATOM	6286	CA	TYR	810	-19.766	37.686	81.552	1.00	36.78
ATOM	6287	CB	TYR	810	-18.612	37.871	82.552	1.00	20.53
ATOM	6288	CG	TYR	810	-17.841	39.181	82.545	1.00	23.30
ATOM	6289	CD1	TYR	810	-17.911	40.062	83.636	1.00	16.61
ATOM	6290	CE1	TYR	810	-17.117	41.216	83.689	1.00	21.59
ATOM	6291	CD2	TYR	810	-16.955	39.493	81.506	1.00	18.66
ATOM	6292	CE2	TYR	810	-16.158	40.642	81.551	1.00	28.70
ATOM	6293	CZ	TYR	810	-16.239	41.498	82.644	1.00	27.46
ATOM	6294	OH	TYR	810	-15.439	42.625	82.675	1.00	31.07
ATOM	6295	C	TYR	810	-19.360	38.102	80.134	1.00	35.12
ATOM	6296	O	TYR	810	-18.336	37.662	79.626	1.00	25.81
ATOM	6297	N	ILE	811	-20.167	38.929	79.481	1.00	22.10
ATOM	6298	CA	ILE	811	-19.827	39.350	78.128	1.00	19.95
ATOM	6299	CB	ILE	811	-20.984	40.101	77.427	1.00	17.72
ATOM	6300	CG2	ILE	811	-20.645	40.294	75.944	1.00	18.51
ATOM	6301	CG1	ILE	811	-22.298	39.330	77.558	1.00	24.65
ATOM	6302	CD1	ILE	811	-23.471	39.982	76.834	1.00	34.83
ATOM	6303	C	ILE	811	-18.620	40.274	78.141	1.00	24.06
ATOM	6304	O	ILE	811	-18.568	41.226	78.922	1.00	23.26
ATOM	6305	N	LEU	812	-17.655	39.975	77.278	1.00	30.31
ATOM	6306	CA	LEU	812	-16.439	40.778	77.144	1.00	34.33
ATOM	6307	CB	LEU	812	-15.284	39.917	76.625	1.00	35.70
ATOM	6308	CG	LEU	812	-14.711	38.895	77.607	1.00	31.16
ATOM	6309	CD1	LEU	812	-13.779	37.965	76.868	1.00	28.40
ATOM	6310	CD2	LEU	812	-13.990	39.600	78.758	1.00	24.44
ATOM	6311	C	LEU	812	-16.679	41.961	76.201	1.00	37.95
ATOM	6312	O	LEU	812	-16.315	43.097	76.513	1.00	43.93
ATOM	6313	N	HIS	813	-17.255	41.669	75.035	1.00	42.24
ATOM	6314	CA	HIS	813	-17.602	42.673	74.028	1.00	44.03
ATOM	6315	CB	HIS	813	-16.371	43.460	73.555	1.00	73.13
ATOM	6316	CG	HIS	813	-15.511	42.723	72.581	1.00	74.09
ATOM	6317	CD2	HIS	813	-14.886	41.526	72.672	1.00	74.15
ATOM	6318	ND1	HIS	813	-15.219	43.218	71.328	1.00	67.86
ATOM	6319	CE1	HIS	813	-14.450	42.355	70.689	1.00	74.36
ATOM	6320	NE2	HIS	813	-14.232	41.323	71.477	1.00	75.44
ATOM	6321	C	HIS	813	-18.324	41.989	72.861	1.00	40.38
ATOM	6322	O	HIS	813	-18.337	40.764	72.770	1.00	69.89

ATOM	6323	N	TYR	814	-18.946	42.778	71.989	1.00	20.20
ATOM	6324	CA	TYR	814	-19.684	42.232	70.851	1.00	19.51
ATOM	6325	CB	TYR	814	-21.197	42.349	71.096	1.00	29.37
ATOM	6326	CG	TYR	814	-21.689	43.750	71.435	1.00	32.13
ATOM	6327	CD1	TYR	814	-21.962	44.111	72.753	1.00	32.57
ATOM	6328	CE1	TYR	814	-22.415	45.398	73.074	1.00	37.64
ATOM	6329	CD2	TYR	814	-21.878	44.716	70.440	1.00	40.56
ATOM	6330	CE2	TYR	814	-22.333	46.010	70.753	1.00	36.35
ATOM	6331	CZ	TYR	814	-22.596	46.342	72.072	1.00	39.15
ATOM	6332	OH	TYR	814	-23.046	47.606	72.401	1.00	50.42
ATOM	6333	C	TYR	814	-19.309	42.867	69.507	1.00	21.83
ATOM	6334	O	TYR	814	-18.912	44.028	69.447	1.00	44.00
ATOM	6335	N	ASP	815	-19.431	42.089	68.434	1.00	30.34
ATOM	6336	CA	ASP	815	-19.111	42.565	67.097	1.00	36.03
ATOM	6337	CB	ASP	815	-17.905	41.827	66.533	1.00	46.64
ATOM	6338	CG	ASP	815	-16.608	42.328	67.123	1.00	58.46
ATOM	6339	OD1	ASP	815	-16.202	41.817	68.191	1.00	67.80
ATOM	6340	OD2	ASP	815	-16.014	43.256	66.532	1.00	63.34
ATOM	6341	C	ASP	815	-20.283	42.498	66.142	1.00	38.43
ATOM	6342	O	ASP	815	-21.133	41.606	66.226	1.00	38.57
ATOM	6343	N	ILE	816	-20.292	43.446	65.212	1.00	19.44
ATOM	6344	CA	ILE	816	-21.364	43.579	64.240	1.00	20.86
ATOM	6345	CB	ILE	816	-22.174	44.877	64.530	1.00	26.17
ATOM	6346	CG2	ILE	816	-23.141	45.186	63.393	1.00	30.52
ATOM	6347	CG1	ILE	816	-22.921	44.754	65.860	1.00	19.24
ATOM	6348	CD1	ILE	816	-23.500	46.050	66.359	1.00	23.12
ATOM	6349	C	ILE	816	-20.866	43.639	62.808	1.00	18.88
ATOM	6350	O	ILE	816	-19.860	44.295	62.518	1.00	14.72
ATOM	6351	N	ASP	817	-21.581	42.944	61.926	1.00	44.96
ATOM	6352	CA	ASP	817	-21.290	42.929	60.494	1.00	51.40
ATOM	6353	CB	ASP	817	-20.751	41.563	60.047	1.00	46.74
ATOM	6354	CG	ASP	817	-19.267	41.364	60.384	1.00	53.13
ATOM	6355	OD1	ASP	817	-18.596	42.328	60.828	1.00	56.85
ATOM	6356	OD2	ASP	817	-18.764	40.233	60.188	1.00	50.98
ATOM	6357	C	ASP	817	-22.596	43.276	59.762	1.00	52.37
ATOM	6358	O	ASP	817	-23.635	42.644	59.991	1.00	47.32
ATOM	6359	N	GLY	818	-22.541	44.320	58.931	1.00	38.02
ATOM	6360	CA	GLY	818	-23.709	44.776	58.190	1.00	28.75
ATOM	6361	C	GLY	818	-24.265	46.092	58.727	1.00	27.47
ATOM	6362	O	GLY	818	-23.564	46.817	59.426	1.00	2.00
ATOM	6363	N	PRO	819	-25.524	46.437	58.409	1.00	52.68
ATOM	6364	CD	PRO	819	-26.306	45.829	57.327	1.00	19.93
ATOM	6365	CA	PRO	819	-26.183	47.671	58.859	1.00	47.18
ATOM	6366	CB	PRO	819	-27.252	47.892	57.784	1.00	13.86
ATOM	6367	CG	PRO	819	-26.809	47.049	56.625	1.00	12.10
ATOM	6368	C	PRO	819	-26.836	47.579	60.255	1.00	42.23
ATOM	6369	O	PRO	819	-28.056	47.373	60.374	1.00	13.88
ATOM	6370	N	MET	820	-26.041	47.768	61.307	1.00	11.45
ATOM	6371	CA	MET	820	-26.587	47.696	62.651	1.00	18.98
ATOM	6372	CB	MET	820	-26.863	46.230	63.004	1.00	36.80
ATOM	6373	CG	MET	820	-27.410	45.987	64.398	1.00	48.29
ATOM	6374	SD	MET	820	-27.887	44.274	64.592	1.00	47.00
ATOM	6375	CE	MET	820	-26.296	43.508	64.793	1.00	58.27
ATOM	6376	C	MET	820	-25.705	48.358	63.720	1.00	26.58
ATOM	6377	O	MET	820	-24.468	48.255	63.678	1.00	38.22
ATOM	6378	N	ASN	821	-26.359	49.097	64.625	1.00	8.62
ATOM	6379	CA	ASN	821	-25.705	49.766	65.749	1.00	10.17

ATOM	6380	CB	ASN	821	-25.904	51.288	65.693	1.00	52.22
ATOM	6381	CG	ASN	821	-24.987	51.973	64.682	1.00	61.81
ATOM	6382	OD1	ASN	821	-25.287	53.071	64.194	1.00	71.01
ATOM	6383	ND2	ASN	821	-23.859	51.337	64.377	1.00	71.50
ATOM	6384	C	ASN	821	-26.410	49.198	66.969	1.00	19.39
ATOM	6385	O	ASN	821	-27.626	49.024	66.963	1.00	60.94
ATOM	6386	N	CYS	822	-25.656	48.880	68.008	1.00	18.89
ATOM	6387	CA	CYS	822	-26.275	48.311	69.192	1.00	16.46
ATOM	6388	C	CYS	822	-26.032	49.129	70.445	1.00	17.43
ATOM	6389	O	CYS	822	-25.418	50.192	70.397	1.00	37.19
ATOM	6390	CB	CYS	822	-25.761	46.891	69.398	1.00	37.87
ATOM	6391	SG	CYS	822	-26.091	45.786	67.997	1.00	52.84
ATOM	6392	N	THR	823	-26.537	48.631	71.566	1.00	7.14
ATOM	6393	CA	THR	823	-26.356	49.287	72.845	1.00	15.84
ATOM	6394	CB	THR	823	-27.149	50.597	72.924	1.00	14.43
ATOM	6395	OG1	THR	823	-26.472	51.604	72.167	1.00	15.38
ATOM	6396	CG2	THR	823	-27.310	51.059	74.378	1.00	13.46
ATOM	6397	C	THR	823	-26.798	48.370	73.968	1.00	18.69
ATOM	6398	O	THR	823	-27.905	47.821	73.931	1.00	6.41
ATOM	6399	N	SER	824	-25.907	48.168	74.936	1.00	2.00
ATOM	6400	CA	SER	824	-26.214	47.343	76.098	1.00	6.14
ATOM	6401	CB	SER	824	-24.987	46.540	76.519	1.00	61.58
ATOM	6402	OG	SER	824	-23.878	47.393	76.733	1.00	82.22
ATOM	6403	C	SER	824	-26.652	48.257	77.238	1.00	5.76
ATOM	6404	O	SER	824	-26.013	49.283	77.507	1.00	53.26
ATOM	6405	N	ASP	825	-27.770	47.911	77.870	1.00	51.94
ATOM	6406	CA	ASP	825	-28.297	48.693	78.989	1.00	55.33
ATOM	6407	CB	ASP	825	-29.674	48.166	79.424	1.00	42.50
ATOM	6408	CG	ASP	825	-29.656	46.686	79.791	1.00	46.44
ATOM	6409	OD1	ASP	825	-28.744	45.964	79.345	1.00	47.22
ATOM	6410	OD2	ASP	825	-30.564	46.235	80.518	1.00	45.23
ATOM	6411	C	ASP	825	-27.322	48.699	80.171	1.00	60.47
ATOM	6412	O	ASP	825	-27.421	49.543	81.070	1.00	46.64
ATOM	6413	N	MET	826	-26.392	47.742	80.159	1.00	42.94
ATOM	6414	CA	MET	826	-25.360	47.610	81.191	1.00	42.55
ATOM	6415	CB	MET	826	-25.457	46.255	81.897	1.00	24.04
ATOM	6416	CG	MET	826	-26.763	46.001	82.631	1.00	31.09
ATOM	6417	SD	MET	826	-26.817	44.370	83.400	1.00	33.16
ATOM	6418	CE	MET	826	-25.860	44.688	84.894	1.00	38.90
ATOM	6419	C	MET	826	-24.020	47.692	80.478	1.00	38.33
ATOM	6420	O	MET	826	-23.932	47.297	79.310	1.00	23.49
ATOM	6421	N	GLU	827	-22.987	48.179	81.177	1.00	17.92
ATOM	6422	CA	GLU	827	-21.644	48.315	80.601	1.00	24.41
ATOM	6423	CB	GLU	827	-20.749	49.110	81.547	1.00	57.96
ATOM	6424	CG	GLU	827	-19.347	49.364	81.011	1.00	70.45
ATOM	6425	CD	GLU	827	-18.386	49.809	82.097	1.00	81.69
ATOM	6426	OE1	GLU	827	-17.371	49.116	82.310	1.00	85.60
ATOM	6427	OE2	GLU	827	-18.644	50.843	82.747	1.00	80.52
ATOM	6428	C	GLU	827	-21.020	46.943	80.349	1.00	25.59
ATOM	6429	O	GLU	827	-20.971	46.109	81.261	1.00	46.48
ATOM	6430	N	ILE	828	-20.583	46.695	79.112	1.00	62.67
ATOM	6431	CA	ILE	828	-19.964	45.410	78.771	1.00	59.84
ATOM	6432	CB	ILE	828	-20.211	44.989	77.292	1.00	14.46
ATOM	6433	CG2	ILE	828	-21.663	44.578	77.096	1.00	2.00
ATOM	6434	CG1	ILE	828	-19.854	46.123	76.328	1.00	27.02
ATOM	6435	CD1	ILE	828	-18.407	46.118	75.825	1.00	42.12
ATOM	6436	C	ILE	828	-18.479	45.416	79.111	1.00	68.39

ATOM	6437	O	ILE	828	-17.732	46.295	78.687	1.00	31.40
ATOM	6438	N	ASN	829	-18.084	44.426	79.907	1.00	36.50
ATOM	6439	CA	ASN	829	-16.717	44.256	80.399	1.00	31.62
ATOM	6440	CB	ASN	829	-15.688	44.280	79.267	1.00	36.56
ATOM	6441	CG	ASN	829	-14.279	44.007	79.761	1.00	37.72
ATOM	6442	OD1	ASN	829	-14.017	42.979	80.386	1.00	36.56
ATOM	6443	ND2	ASN	829	-13.369	44.944	79.504	1.00	38.81
ATOM	6444	C	ASN	829	-16.366	45.292	81.463	1.00	28.87
ATOM	6445	O	ASN	829	-15.518	46.157	81.257	1.00	32.98
ATOM	6446	N	PRO	830	-17.058	45.238	82.608	1.00	43.66
ATOM	6447	CD	PRO	830	-18.225	44.394	82.928	1.00	39.57
ATOM	6448	CA	PRO	830	-16.792	46.183	83.690	1.00	44.82
ATOM	6449	CB	PRO	830	-17.974	45.952	84.638	1.00	35.67
ATOM	6450	CG	PRO	830	-18.314	44.518	84.428	1.00	43.52
ATOM	6451	C	PRO	830	-15.447	45.923	84.376	1.00	52.48
ATOM	6452	O	PRO	830	-14.676	46.854	84.606	1.00	54.68
ATOM	6453	N	LEU	831	-15.153	44.650	84.643	1.00	68.94
ATOM	6454	CA	LEU	831	-13.917	44.240	85.313	1.00	61.47
ATOM	6455	CB	LEU	831	-14.049	42.803	85.827	1.00	55.04
ATOM	6456	CG	LEU	831	-15.405	42.407	86.426	1.00	65.54
ATOM	6457	CD1	LEU	831	-15.345	40.986	86.958	1.00	67.96
ATOM	6458	CD2	LEU	831	-15.810	43.363	87.529	1.00	75.45
ATOM	6459	C	LEU	831	-12.676	44.361	84.429	1.00	57.35
ATOM	6460	O	LEU	831	-11.644	43.749	84.702	1.00	43.65
ATOM	6461	N	ARG	832	-12.794	45.150	83.365	1.00	44.88
ATOM	6462	CA	ARG	832	-11.710	45.397	82.418	1.00	46.24
ATOM	6463	CB	ARG	832	-10.850	46.575	82.879	1.00	74.30
ATOM	6464	CG	ARG	832	-11.606	47.893	83.005	1.00	91.32
ATOM	6465	CD	ARG	832	-12.248	48.331	81.689	1.00	99.98
ATOM	6466	NE	ARG	832	-12.887	49.643	81.813	1.00	98.98
ATOM	6467	CZ	ARG	832	-14.020	49.995	81.209	1.00	96.31
ATOM	6468	NH1	ARG	832	-14.660	49.134	80.426	1.00	90.46
ATOM	6469	NH2	ARG	832	-14.514	51.214	81.395	1.00	91.97
ATOM	6470	C	ARG	832	-10.831	44.195	82.098	1.00	39.30
ATOM	6471	O	ARG	832	-9.630	44.335	81.868	1.00	63.86
ATOM	6472	N	ILE	833	-11.442	43.014	82.089	1.00	25.17
ATOM	6473	CA	ILE	833	-10.744	41.775	81.767	1.00	11.89
ATOM	6474	CB	ILE	833	-11.698	40.584	81.874	1.00	5.23
ATOM	6475	CG2	ILE	833	-11.079	39.351	81.253	1.00	16.87
ATOM	6476	CG1	ILE	833	-12.074	40.349	83.330	1.00	9.28
ATOM	6477	CD1	ILE	833	-10.897	40.099	84.212	1.00	11.94
ATOM	6478	C	ILE	833	-10.210	41.834	80.334	1.00	14.85
ATOM	6479	O	ILE	833	-10.893	42.324	79.430	1.00	16.96
ATOM	6480	N	LYS	834	-8.996	41.332	80.128	1.00	15.14
ATOM	6481	CA	LYS	834	-8.400	41.343	78.800	1.00	30.11
ATOM	6482	CB	LYS	834	-7.188	42.275	78.773	1.00	100.00
ATOM	6483	CG	LYS	834	-7.544	43.747	78.962	1.00	100.00
ATOM	6484	CD	LYS	834	-8.413	44.272	77.817	1.00	100.00
ATOM	6485	CE	LYS	834	-8.921	45.685	78.094	1.00	100.00
ATOM	6486	NZ	LYS	834	-9.863	45.740	79.255	1.00	100.00
ATOM	6487	C	LYS	834	-8.014	39.953	78.325	1.00	36.72
ATOM	6488	O	LYS	834	-8.266	38.964	79.016	1.00	100.00
ATOM	6489	N	ILE	835	-7.398	39.886	77.144	1.00	100.00
ATOM	6490	CA	ILE	835	-6.964	38.623	76.539	1.00	100.00
ATOM	6491	CB	ILE	835	-6.451	38.855	75.076	1.00	98.63
ATOM	6492	CG2	ILE	835	-5.080	39.547	75.084	1.00	99.93
ATOM	6493	CG1	ILE	835	-6.420	37.531	74.296	1.00	97.11

ATOM	6494	CD1	ILE	835	-5.805	37.629	72.908	1.00100.00
ATOM	6495	C	ILE	835	-5.901	37.885	77.386	1.00100.00
ATOM	6496	O	ILE	835	-5.787	38.115	78.595	1.00100.00
ATOM	6497	N	SER	836	-5.133	37.008	76.741	1.00100.00
ATOM	6498	CA	SER	836	-4.091	36.205	77.383	1.00100.00
ATOM	6499	CB	SER	836	-3.249	35.500	76.313	1.00100.00
ATOM	6500	OG	SER	836	-2.328	34.596	76.899	1.00100.00
ATOM	6501	C	SER	836	-3.172	36.954	78.357	1.00100.00
ATOM	6502	O	SER	836	-3.071	36.569	79.527	1.00100.00
ATOM	6503	N	SER	837	-2.516	38.010	77.861	1.00100.00
ATOM	6504	CA	SER	837	-1.573	38.853	78.622	1.00100.00
ATOM	6505	CB	SER	837	-2.075	39.138	80.050	1.00100.00
ATOM	6506	OG	SER	837	-1.177	39.977	80.763	1.00100.00
ATOM	6507	C	SER	837	-0.125	38.317	78.644	1.00100.00
ATOM	6508	O	SER	837	0.819	39.089	78.448	1.00100.00
ATOM	6509	N	LEU	838	0.045	37.012	78.888	1.00100.00
ATOM	6510	CA	LEU	838	1.377	36.386	78.916	1.00100.00
ATOM	6511	CB	LEU	838	1.582	35.553	80.202	1.00 99.56
ATOM	6512	CG	LEU	838	3.005	35.217	80.710	1.00 99.56
ATOM	6513	CD1	LEU	838	2.924	34.568	82.086	1.00 99.56
ATOM	6514	CD2	LEU	838	3.772	34.310	79.746	1.00 99.56
ATOM	6515	C	LEU	838	1.553	35.501	77.679	1.00100.00
ATOM	6516	O	LEU	838	1.062	34.371	77.629	1.00 94.45
ATOM	6517	N	ASP	868	-34.403	26.643	86.967	1.00100.00
ATOM	6518	CA	ASP	868	-33.795	26.346	88.263	1.00100.00
ATOM	6519	CB	ASP	868	-34.853	26.372	89.376	1.00100.00
ATOM	6520	CG	ASP	868	-35.745	27.592	89.307	1.00100.00
ATOM	6521	OD1	ASP	868	-36.916	27.443	88.893	1.00100.00
ATOM	6522	OD2	ASP	868	-35.277	28.694	89.665	1.00100.00
ATOM	6523	C	ASP	868	-33.160	24.959	88.218	1.00100.00
ATOM	6524	O	ASP	868	-31.938	24.813	88.356	1.00100.00
ATOM	6525	N	ILE	869	-34.013	23.948	88.034	1.00100.00
ATOM	6526	CA	ILE	869	-33.590	22.552	87.959	1.00100.00
ATOM	6527	CB	ILE	869	-34.826	21.591	87.912	1.00100.00
ATOM	6528	CG2	ILE	869	-35.603	21.761	86.600	1.00100.00
ATOM	6529	CG1	ILE	869	-34.383	20.137	88.108	1.00100.00
ATOM	6530	CD1	ILE	869	-33.737	19.862	89.462	1.00100.00
ATOM	6531	C	ILE	869	-32.696	22.348	86.728	1.00100.00
ATOM	6532	O	ILE	869	-31.815	21.481	86.719	1.00 98.46
ATOM	6533	N	HIS	870	-32.892	23.202	85.723	1.00 90.37
ATOM	6534	CA	HIS	870	-32.128	23.141	84.487	1.00 87.95
ATOM	6535	CB	HIS	870	-32.782	22.149	83.521	1.00 68.27
ATOM	6536	CG	HIS	870	-32.242	20.763	83.626	1.00 73.82
ATOM	6537	CD2	HIS	870	-32.596	19.720	84.425	1.00 75.74
ATOM	6538	ND1	HIS	870	-31.188	20.314	82.862	1.00 75.74
ATOM	6539	CE1	HIS	870	-30.912	19.061	83.181	1.00 75.74
ATOM	6540	NE2	HIS	870	-31.755	18.683	84.128	1.00 75.74
ATOM	6541	C	HIS	870	-31.975	24.495	83.798	1.00 88.47
ATOM	6542	O	HIS	870	-31.009	25.227	84.029	1.00 70.73
ATOM	6543	N	THR	871	-32.962	24.817	82.970	1.00 77.53
ATOM	6544	CA	THR	871	-32.987	26.042	82.184	1.00 71.74
ATOM	6545	CB	THR	871	-34.293	26.159	81.383	1.00 41.32
ATOM	6546	OG1	THR	871	-34.171	27.235	80.447	1.00 49.66
ATOM	6547	CG2	THR	871	-35.489	26.412	82.319	1.00 51.00
ATOM	6548	C	THR	871	-32.773	27.334	82.945	1.00 63.41
ATOM	6549	O	THR	871	-33.309	27.535	84.033	1.00 27.16
ATOM	6550	N	LEU	872	-32.024	28.233	82.325	1.00 14.55

ATOM	6551	CA	LEU	872	-31.729	29.521	82.920	1.00	9.35
ATOM	6552	CB	LEU	872	-30.265	29.611	83.357	1.00	18.47
ATOM	6553	CG	LEU	872	-30.052	29.120	84.781	1.00	6.87
ATOM	6554	CD1	LEU	872	-28.719	29.591	85.302	1.00	3.44
ATOM	6555	CD2	LEU	872	-31.173	29.670	85.647	1.00	2.00
ATOM	6556	C	LEU	872	-32.066	30.683	82.013	1.00	12.56
ATOM	6557	O	LEU	872	-33.219	30.852	81.599	1.00	29.15
ATOM	6558	N	GLY	873	-31.062	31.510	81.740	1.00	89.99
ATOM	6559	CA	GLY	873	-31.276	32.667	80.904	1.00	100.00
ATOM	6560	C	GLY	873	-32.232	33.650	81.547	1.00	100.00
ATOM	6561	O	GLY	873	-32.499	33.599	82.751	1.00	58.39
ATOM	6562	N	CYS	874	-32.767	34.540	80.724	1.00	98.39
ATOM	6563	CA	CYS	874	-33.707	35.538	81.190	1.00	98.75
ATOM	6564	C	CYS	874	-34.977	34.899	81.748	1.00	98.75
ATOM	6565	O	CYS	874	-35.189	33.685	81.614	1.00	89.94
ATOM	6566	CB	CYS	874	-34.028	36.494	80.051	1.00	82.81
ATOM	6567	SG	CYS	874	-32.727	37.736	79.789	1.00	86.26
ATOM	6568	N	GLY	875	-35.809	35.722	82.384	1.00	78.12
ATOM	6569	CA	GLY	875	-37.039	35.230	82.979	1.00	78.12
ATOM	6570	C	GLY	875	-36.776	34.757	84.398	1.00	76.00
ATOM	6571	O	GLY	875	-37.584	34.987	85.297	1.00	100.00
ATOM	6572	N	VAL	876	-35.641	34.086	84.588	1.00	99.19
ATOM	6573	CA	VAL	876	-35.225	33.575	85.892	1.00	93.19
ATOM	6574	CB	VAL	876	-34.732	32.116	85.797	1.00	64.74
ATOM	6575	CG1	VAL	876	-34.757	31.470	87.164	1.00	57.59
ATOM	6576	CG2	VAL	876	-35.572	31.325	84.803	1.00	55.62
ATOM	6577	C	VAL	876	-34.056	34.442	86.354	1.00	91.14
ATOM	6578	O	VAL	876	-34.069	35.007	87.449	1.00	79.73
ATOM	6579	N	ALA	877	-33.040	34.526	85.502	1.00	58.98
ATOM	6580	CA	ALA	877	-31.858	35.331	85.773	1.00	56.18
ATOM	6581	CB	ALA	877	-30.672	34.779	85.002	1.00	62.72
ATOM	6582	C	ALA	877	-32.135	36.773	85.348	1.00	56.02
ATOM	6583	O	ALA	877	-33.015	37.023	84.514	1.00	65.04
ATOM	6584	N	GLN	878	-31.397	37.720	85.929	1.00	39.60
ATOM	6585	CA	GLN	878	-31.561	39.134	85.589	1.00	48.03
ATOM	6586	CB	GLN	878	-31.165	40.026	86.764	1.00	94.05
ATOM	6587	CG	GLN	878	-32.169	39.956	87.916	1.00	100.00
ATOM	6588	CD	GLN	878	-33.595	40.319	87.490	1.00	100.00
ATOM	6589	OE1	GLN	878	-34.271	39.554	86.788	1.00	100.00
ATOM	6590	NE2	GLN	878	-34.058	41.489	87.921	1.00	100.00
ATOM	6591	C	GLN	878	-30.780	39.481	84.334	1.00	47.61
ATOM	6592	O	GLN	878	-29.564	39.311	84.280	1.00	89.26
ATOM	6593	N	CYS	879	-31.498	39.975	83.328	1.00	77.00
ATOM	6594	CA	CYS	879	-30.914	40.300	82.031	1.00	75.10
ATOM	6595	C	CYS	879	-30.040	41.518	81.890	1.00	66.13
ATOM	6596	O	CYS	879	-30.059	42.442	82.699	1.00	31.34
ATOM	6597	CB	CYS	879	-32.005	40.446	80.966	1.00	44.35
ATOM	6598	SG	CYS	879	-33.316	39.205	81.054	1.00	73.87
ATOM	6599	N	LEU	880	-29.266	41.462	80.817	1.00	2.00
ATOM	6600	CA	LEU	880	-28.411	42.528	80.347	1.00	2.00
ATOM	6601	CB	LEU	880	-26.936	42.174	80.489	1.00	5.86
ATOM	6602	CG	LEU	880	-25.872	42.558	79.444	1.00	7.35
ATOM	6603	CD1	LEU	880	-26.184	43.809	78.647	1.00	2.00
ATOM	6604	CD2	LEU	880	-24.546	42.704	80.159	1.00	24.77
ATOM	6605	C	LEU	880	-28.898	42.416	78.908	1.00	2.00
ATOM	6606	O	LEU	880	-28.891	41.336	78.329	1.00	14.62
ATOM	6607	N	LYS	881	-29.457	43.500	78.392	1.00	8.43

ATOM	6608	CA	LYS	881	-29.998	43.494	77.048	1.00	10.82
ATOM	6609	CB	LYS	881	-31.463	43.936	77.060	1.00	33.44
ATOM	6610	CG	LYS	881	-32.471	42.901	77.531	1.00	47.55
ATOM	6611	CD	LYS	881	-33.892	43.494	77.536	1.00	48.66
ATOM	6612	CE	LYS	881	-34.076	44.519	78.655	1.00	54.07
ATOM	6613	NZ	LYS	881	-33.836	43.930	80.012	1.00	62.79
ATOM	6614	C	LYS	881	-29.269	44.362	76.063	1.00	8.66
ATOM	6615	O	LYS	881	-28.878	45.496	76.355	1.00	28.51
ATOM	6616	N	ILE	882	-29.080	43.806	74.882	1.00	3.42
ATOM	6617	CA	ILE	882	-28.472	44.570	73.830	1.00	5.18
ATOM	6618	CB	ILE	882	-27.324	43.840	73.104	1.00	10.37
ATOM	6619	CG2	ILE	882	-26.848	44.683	71.930	1.00	6.53
ATOM	6620	CG1	ILE	882	-26.137	43.623	74.041	1.00	2.48
ATOM	6621	CD1	ILE	882	-26.299	42.470	75.008	1.00	2.24
ATOM	6622	C	ILE	882	-29.618	44.838	72.866	1.00	8.07
ATOM	6623	O	ILE	882	-30.374	43.933	72.487	1.00	17.12
ATOM	6624	N	VAL	883	-29.817	46.117	72.588	1.00	24.21
ATOM	6625	CA	VAL	883	-30.847	46.539	71.672	1.00	21.38
ATOM	6626	CB	VAL	883	-31.765	47.595	72.318	1.00	8.49
ATOM	6627	CG1	VAL	883	-31.030	48.922	72.512	1.00	15.32
ATOM	6628	CG2	VAL	883	-33.021	47.758	71.501	1.00	7.37
ATOM	6629	C	VAL	883	-30.081	47.074	70.467	1.00	20.43
ATOM	6630	O	VAL	883	-29.095	47.814	70.608	1.00	6.95
ATOM	6631	N	CYS	884	-30.488	46.630	69.286	1.00	2.00
ATOM	6632	CA	CYS	884	-29.804	47.027	68.069	1.00	4.49
ATOM	6633	C	CYS	884	-30.757	47.588	67.036	1.00	5.98
ATOM	6634	O	CYS	884	-31.830	47.020	66.770	1.00	4.41
ATOM	6635	CB	CYS	884	-29.059	45.828	67.445	1.00	10.33
ATOM	6636	SG	CYS	884	-27.859	44.935	68.488	1.00	29.65
ATOM	6637	N	GLN	885	-30.312	48.676	66.417	1.00	2.00
ATOM	6638	CA	GLN	885	-31.060	49.369	65.377	1.00	2.00
ATOM	6639	CB	GLN	885	-30.871	50.901	65.496	1.00	20.00
ATOM	6640	CG	GLN	885	-31.343	51.568	66.828	1.00	28.65
ATOM	6641	CD	GLN	885	-30.361	51.419	68.015	1.00	40.47
ATOM	6642	OE1	GLN	885	-30.551	50.574	68.894	1.00	53.49
ATOM	6643	NE2	GLN	885	-29.333	52.265	68.052	1.00	45.30
ATOM	6644	C	GLN	885	-30.519	48.858	64.045	1.00	2.00
ATOM	6645	O	GLN	885	-29.304	48.875	63.810	1.00	19.18
ATOM	6646	N	VAL	886	-31.416	48.345	63.206	1.00	4.44
ATOM	6647	CA	VAL	886	-31.047	47.810	61.893	1.00	6.31
ATOM	6648	CB	VAL	886	-31.636	46.390	61.697	1.00	13.16
ATOM	6649	CG1	VAL	886	-31.483	45.921	60.258	1.00	10.72
ATOM	6650	CG2	VAL	886	-30.961	45.408	62.646	1.00	20.67
ATOM	6651	C	VAL	886	-31.557	48.736	60.790	1.00	11.83
ATOM	6652	O	VAL	886	-32.415	49.590	61.045	1.00	38.90
ATOM	6653	N	GLY	887	-31.032	48.586	59.574	1.00	2.00
ATOM	6654	CA	GLY	887	-31.509	49.446	58.529	1.00	2.00
ATOM	6655	C	GLY	887	-30.994	49.292	57.127	1.00	13.65
ATOM	6656	O	GLY	887	-30.187	50.105	56.669	1.00	100.00
ATOM	6657	N	ARG	888	-31.516	48.294	56.424	1.00	23.96
ATOM	6658	CA	ARG	888	-31.167	48.030	55.025	1.00	31.08
ATOM	6659	CB	ARG	888	-29.664	48.196	54.737	1.00	83.04
ATOM	6660	CG	ARG	888	-29.314	48.253	53.249	1.00	100.00
ATOM	6661	CD	ARG	888	-30.157	49.308	52.513	1.00	100.00
ATOM	6662	NE	ARG	888	-29.747	49.501	51.116	1.00	100.00
ATOM	6663	CZ	ARG	888	-30.577	49.798	50.113	1.00	100.00
ATOM	6664	NH1	ARG	888	-31.881	49.936	50.335	1.00	100.00

ATOM	6665	NH2	ARG	888	-30.099	49.973	48.884	1.00100.00
ATOM	6666	C	ARG	888	-31.611	46.616	54.730	1.00 29.21
ATOM	6667	O	ARG	888	-32.805	46.328	54.745	1.00 83.16
ATOM	6668	N	LEU	889	-30.652	45.722	54.522	1.00 29.11
ATOM	6669	CA	LEU	889	-30.956	44.330	54.222	1.00 22.46
ATOM	6670	CB	LEU	889	-31.566	43.614	55.427	1.00 10.70
ATOM	6671	CG	LEU	889	-30.792	43.639	56.740	1.00 20.21
ATOM	6672	CD1	LEU	889	-31.023	42.328	57.478	1.00 15.73
ATOM	6673	CD2	LEU	889	-29.322	43.833	56.482	1.00 11.81
ATOM	6674	C	LEU	889	-31.866	44.167	53.008	1.00 23.04
ATOM	6675	O	LEU	889	-33.098	44.085	53.123	1.00 2.00
ATOM	6676	N	ASP	890	-31.236	44.121	51.841	1.00 4.53
ATOM	6677	CA	ASP	890	-31.951	43.948	50.605	1.00 9.34
ATOM	6678	CB	ASP	890	-31.113	44.463	49.441	1.00 21.71
ATOM	6679	CG	ASP	890	-30.931	45.977	49.494	1.00 34.89
ATOM	6680	OD1	ASP	890	-31.931	46.701	49.312	1.00 35.41
ATOM	6681	OD2	ASP	890	-29.801	46.445	49.744	1.00 47.24
ATOM	6682	C	ASP	890	-32.402	42.501	50.440	1.00 10.85
ATOM	6683	O	ASP	890	-32.560	41.789	51.433	1.00 14.79
ATOM	6684	N	ARG	891	-32.640	42.068	49.208	1.00 68.35
ATOM	6685	CA	ARG	891	-33.130	40.717	48.992	1.00 69.94
ATOM	6686	CB	ARG	891	-33.513	40.499	47.527	1.00 98.17
ATOM	6687	CG	ARG	891	-32.370	40.248	46.561	1.00100.00
ATOM	6688	CD	ARG	891	-32.871	40.193	45.104	1.00100.00
ATOM	6689	NE	ARG	891	-34.170	39.525	44.946	1.00100.00
ATOM	6690	CZ	ARG	891	-34.436	38.261	45.283	1.00100.00
ATOM	6691	NH1	ARG	891	-33.494	37.482	45.807	1.00100.00
ATOM	6692	NH2	ARG	891	-35.662	37.778	45.118	1.00100.00
ATOM	6693	C	ARG	891	-32.263	39.584	49.543	1.00 69.27
ATOM	6694	O	ARG	891	-32.798	38.551	49.952	1.00 88.22
ATOM	6695	N	GLY	892	-30.947	39.781	49.616	1.00 4.54
ATOM	6696	CA	GLY	892	-30.106	38.725	50.154	1.00 10.39
ATOM	6697	C	GLY	892	-28.944	39.279	50.935	1.00 14.92
ATOM	6698	O	GLY	892	-27.784	39.064	50.564	1.00 38.90
ATOM	6699	N	LYS	893	-29.240	39.946	52.045	1.00 10.28
ATOM	6700	CA	LYS	893	-28.176	40.555	52.823	1.00 15.08
ATOM	6701	CB	LYS	893	-28.350	42.070	52.851	1.00 62.34
ATOM	6702	CG	LYS	893	-27.469	42.803	51.839	1.00 71.64
ATOM	6703	CD	LYS	893	-27.651	42.295	50.414	1.00 74.72
ATOM	6704	CE	LYS	893	-26.612	42.891	49.465	1.00 82.12
ATOM	6705	NZ	LYS	893	-25.206	42.523	49.811	1.00 83.06
ATOM	6706	C	LYS	893	-27.809	40.010	54.200	1.00 13.29
ATOM	6707	O	LYS	893	-26.775	39.341	54.327	1.00 57.25
ATOM	6708	N	SER	894	-28.596	40.338	55.225	1.00 17.20
ATOM	6709	CA	SER	894	-28.344	39.885	56.607	1.00 13.29
ATOM	6710	CB	SER	894	-27.941	38.398	56.653	1.00 23.75
ATOM	6711	OG	SER	894	-26.532	38.227	56.767	1.00 26.75
ATOM	6712	C	SER	894	-27.353	40.700	57.477	1.00 4.40
ATOM	6713	O	SER	894	-26.355	41.252	56.993	1.00 2.16
ATOM	6714	N	ALA	895	-27.651	40.714	58.777	1.00 6.35
ATOM	6715	CA	ALA	895	-26.861	41.401	59.795	1.00 10.35
ATOM	6716	CB	ALA	895	-27.665	42.525	60.402	1.00 3.89
ATOM	6717	C	ALA	895	-26.515	40.376	60.877	1.00 16.12
ATOM	6718	O	ALA	895	-27.383	39.583	61.268	1.00 6.87
ATOM	6719	N	ILE	896	-25.273	40.413	61.379	1.00 6.05
ATOM	6720	CA	ILE	896	-24.823	39.457	62.400	1.00 11.25
ATOM	6721	CB	ILE	896	-23.664	38.534	61.873	1.00 11.92

ATOM	6722	CG2	ILE	896	-23.927	37.088	62.265	1.00	28.37
ATOM	6723	CG1	ILE	896	-23.496	38.619	60.353	1.00	2.00
ATOM	6724	CD1	ILE	896	-24.330	37.629	59.569	1.00	11.68
ATOM	6725	C	ILE	896	-24.329	40.124	63.692	1.00	12.36
ATOM	6726	O	ILE	896	-23.619	41.129	63.646	1.00	15.40
ATOM	6727	N	LEU	897	-24.697	39.552	64.838	1.00	2.34
ATOM	6728	CA	LEU	897	-24.269	40.076	66.140	1.00	5.06
ATOM	6729	CB	LEU	897	-25.470	40.420	67.050	1.00	10.60
ATOM	6730	CG	LEU	897	-25.360	41.449	68.209	1.00	11.10
ATOM	6731	CD1	LEU	897	-26.381	41.113	69.284	1.00	15.21
ATOM	6732	CD2	LEU	897	-23.964	41.541	68.823	1.00	2.94
ATOM	6733	C	LEU	897	-23.452	38.983	66.804	1.00	11.62
ATOM	6734	O	LEU	897	-23.977	37.927	67.165	1.00	23.62
ATOM	6735	N	TYR	898	-22.175	39.262	67.008	1.00	11.61
ATOM	6736	CA	TYR	898	-21.290	38.288	67.617	1.00	2.79
ATOM	6737	CB	TYR	898	-19.983	38.237	66.844	1.00	2.00
ATOM	6738	CG	TYR	898	-20.152	38.106	65.353	1.00	6.40
ATOM	6739	CD1	TYR	898	-19.891	39.179	64.513	1.00	21.20
ATOM	6740	CE1	TYR	898	-19.995	39.054	63.138	1.00	28.62
ATOM	6741	CD2	TYR	898	-20.534	36.903	64.780	1.00	5.18
ATOM	6742	CE2	TYR	898	-20.642	36.767	63.409	1.00	19.93
ATOM	6743	CZ	TYR	898	-20.373	37.845	62.591	1.00	28.33
ATOM	6744	OH	TYR	898	-20.471	37.718	61.224	1.00	37.38
ATOM	6745	C	TYR	898	-21.002	38.603	69.075	1.00	5.38
ATOM	6746	O	TYR	898	-20.206	39.488	69.384	1.00	2.00
ATOM	6747	N	VAL	899	-21.622	37.845	69.970	1.00	13.97
ATOM	6748	CA	VAL	899	-21.435	38.031	71.406	1.00	21.78
ATOM	6749	CB	VAL	899	-22.757	37.758	72.152	1.00	2.00
ATOM	6750	CG1	VAL	899	-22.654	38.188	73.617	1.00	2.00
ATOM	6751	CG2	VAL	899	-23.901	38.450	71.446	1.00	4.15
ATOM	6752	C	VAL	899	-20.328	37.097	71.940	1.00	33.50
ATOM	6753	O	VAL	899	-20.398	35.883	71.774	1.00	4.61
ATOM	6754	N	LYS	900	-19.318	37.672	72.590	1.00	9.87
ATOM	6755	CA	LYS	900	-18.204	36.906	73.136	1.00	4.09
ATOM	6756	CB	LYS	900	-16.887	37.533	72.662	1.00	30.72
ATOM	6757	CG	LYS	900	-15.625	36.805	73.088	1.00	30.39
ATOM	6758	CD	LYS	900	-14.441	37.305	72.283	1.00	35.56
ATOM	6759	CE	LYS	900	-13.225	36.410	72.445	1.00	33.29
ATOM	6760	NZ	LYS	900	-12.654	36.424	73.819	1.00	38.54
ATOM	6761	C	LYS	900	-18.267	36.859	74.666	1.00	4.31
ATOM	6762	O	LYS	900	-17.886	37.820	75.344	1.00	30.43
ATOM	6763	N	SER	901	-18.735	35.734	75.209	1.00	27.39
ATOM	6764	CA	SER	901	-18.861	35.581	76.660	1.00	27.07
ATOM	6765	CB	SER	901	-20.056	34.696	77.014	1.00	25.64
ATOM	6766	OG	SER	901	-21.262	35.255	76.553	1.00	23.58
ATOM	6767	C	SER	901	-17.630	35.011	77.329	1.00	28.71
ATOM	6768	O	SER	901	-16.522	35.109	76.813	1.00	32.11
ATOM	6769	N	LEU	902	-17.863	34.432	78.503	1.00	17.57
ATOM	6770	CA	LEU	902	-16.849	33.803	79.340	1.00	22.00
ATOM	6771	CB	LEU	902	-15.932	34.829	79.996	1.00	35.56
ATOM	6772	CG	LEU	902	-14.718	35.321	79.228	1.00	29.76
ATOM	6773	CD1	LEU	902	-13.807	36.010	80.209	1.00	27.01
ATOM	6774	CD2	LEU	902	-13.987	34.156	78.581	1.00	32.26
ATOM	6775	C	LEU	902	-17.602	33.113	80.443	1.00	25.31
ATOM	6776	O	LEU	902	-18.165	33.780	81.315	1.00	36.02
ATOM	6777	N	LEU	903	-17.618	31.785	80.417	1.00	21.92
ATOM	6778	CA	LEU	903	-18.331	31.048	81.447	1.00	12.96

ATOM	6779	CB	LEU	903	-18.303	29.545	81.172	1.00	24.94
ATOM	6780	CG	LEU	903	-19.137	28.646	82.094	1.00	21.79
ATOM	6781	CD1	LEU	903	-18.332	28.193	83.295	1.00	16.77
ATOM	6782	CD2	LEU	903	-20.421	29.349	82.516	1.00	21.20
ATOM	6783	C	LEU	903	-17.708	31.371	82.787	1.00	14.90
ATOM	6784	O	LEU	903	-16.587	30.956	83.071	1.00	40.67
ATOM	6785	N	TRP	904	-18.401	32.197	83.562	1.00	7.23
ATOM	6786	CA	TRP	904	-17.920	32.583	84.878	1.00	24.02
ATOM	6787	CB	TRP	904	-18.756	33.736	85.429	1.00	35.43
ATOM	6788	CG	TRP	904	-17.927	34.683	86.215	1.00	32.54
ATOM	6789	CD2	TRP	904	-17.903	34.803	87.627	1.00	27.47
ATOM	6790	CE2	TRP	904	-16.904	35.758	87.951	1.00	37.19
ATOM	6791	CE3	TRP	904	-18.631	34.197	88.656	1.00	31.25
ATOM	6792	CD1	TRP	904	-16.976	35.558	85.736	1.00	36.05
ATOM	6793	NE1	TRP	904	-16.354	36.204	86.778	1.00	34.74
ATOM	6794	CZ2	TRP	904	-16.615	36.116	89.267	1.00	51.10
ATOM	6795	CZ3	TRP	904	-18.347	34.555	89.962	1.00	59.74
ATOM	6796	CH2	TRP	904	-17.344	35.507	90.258	1.00	63.44
ATOM	6797	C	TRP	904	-18.056	31.318	85.713	1.00	34.34
ATOM	6798	O	TRP	904	-19.165	30.902	86.033	1.00	58.04
ATOM	6799	N	THR	905	-16.915	30.716	86.050	1.00	24.09
ATOM	6800	CA	THR	905	-16.864	29.432	86.754	1.00	25.31
ATOM	6801	CB	THR	905	-15.472	28.781	86.611	1.00	46.24
ATOM	6802	OG1	THR	905	-14.880	29.176	85.367	1.00	44.31
ATOM	6803	CG2	THR	905	-15.603	27.272	86.596	1.00	44.49
ATOM	6804	C	THR	905	-17.361	29.283	88.188	1.00	27.09
ATOM	6805	O	THR	905	-16.753	28.599	89.003	1.00	52.17
ATOM	6806	N	GLU	906	-18.465	29.935	88.507	1.00	40.98
ATOM	6807	CA	GLU	906	-19.054	29.795	89.826	1.00	38.01
ATOM	6808	CB	GLU	906	-19.390	31.150	90.432	1.00	57.44
ATOM	6809	CG	GLU	906	-18.296	31.618	91.381	1.00	64.89
ATOM	6810	CD	GLU	906	-16.930	31.106	90.966	1.00	60.52
ATOM	6811	OE1	GLU	906	-16.373	31.610	89.962	1.00	55.20
ATOM	6812	OE2	GLU	906	-16.437	30.166	91.625	1.00	63.88
ATOM	6813	C	GLU	906	-20.277	28.932	89.668	1.00	36.74
ATOM	6814	O	GLU	906	-21.035	28.713	90.617	1.00	46.11
ATOM	6815	N	THR	907	-20.419	28.395	88.453	1.00	83.15
ATOM	6816	CA	THR	907	-21.513	27.498	88.105	1.00	75.27
ATOM	6817	CB	THR	907	-21.605	27.243	86.542	1.00	32.23
ATOM	6818	OG1	THR	907	-21.142	28.392	85.814	1.00	21.88
ATOM	6819	CG2	THR	907	-23.066	27.022	86.114	1.00	2.31
ATOM	6820	C	THR	907	-21.174	26.210	88.869	1.00	79.46
ATOM	6821	O	THR	907	-21.821	25.180	88.716	1.00	46.11
ATOM	6822	N	PHE	908	-20.168	26.329	89.734	1.00	58.45
ATOM	6823	CA	PHE	908	-19.663	25.270	90.582	1.00	64.58
ATOM	6824	CB	PHE	908	-18.366	25.728	91.247	1.00	53.40
ATOM	6825	CG	PHE	908	-17.145	25.132	90.635	1.00	49.98
ATOM	6826	CD1	PHE	908	-17.128	24.780	89.288	1.00	56.57
ATOM	6827	CD2	PHE	908	-16.014	24.899	91.396	1.00	54.65
ATOM	6828	CE1	PHE	908	-15.996	24.200	88.702	1.00	56.09
ATOM	6829	CE2	PHE	908	-14.875	24.318	90.819	1.00	65.82
ATOM	6830	CZ	PHE	908	-14.871	23.970	89.464	1.00	61.48
ATOM	6831	C	PHE	908	-20.652	24.811	91.642	1.00	71.32
ATOM	6832	O	PHE	908	-21.678	24.201	91.321	1.00	60.25
ATOM	6833	N	MET	909	-20.323	25.089	92.903	1.00	100.00
ATOM	6834	CA	MET	909	-21.152	24.704	94.038	1.00	100.00
ATOM	6835	CB	MET	909	-22.419	25.564	94.088	1.00	75.37

ATOM	6836	CG	MET	909	-22.999	25.654	95.477	1.00	75.37
ATOM	6837	SD	MET	909	-21.660	25.931	96.657	1.00	71.70
ATOM	6838	CE	MET	909	-20.902	27.465	95.986	1.00	74.62
ATOM	6839	C	MET	909	-21.504	23.216	93.972	1.00	100.00
ATOM	6840	O	MET	909	-22.667	22.828	94.120	1.00	73.98
ATOM	6841	N	ASN	910	-20.483	22.394	93.734	1.00	99.46
ATOM	6842	CA	ASN	910	-20.643	20.943	93.626	1.00	99.46
ATOM	6843	CB	ASN	910	-19.416	20.307	92.937	1.00	100.00
ATOM	6844	CG	ASN	910	-18.120	20.465	93.743	1.00	100.00
ATOM	6845	OD1	ASN	910	-17.831	19.672	94.647	1.00	100.00
ATOM	6846	ND2	ASN	910	-17.322	21.470	93.392	1.00	100.00
ATOM	6847	C	ASN	910	-20.928	20.233	94.952	1.00	99.46
ATOM	6848	O	ASN	910	-21.213	19.032	94.973	1.00	100.00
ATOM	6849	N	LYS	911	-20.876	20.989	96.046	1.00	100.00
ATOM	6850	CA	LYS	911	-21.097	20.451	97.387	1.00	100.00
ATOM	6851	CB	LYS	911	-20.694	21.490	98.445	1.00	98.70
ATOM	6852	CG	LYS	911	-21.012	21.080	99.888	1.00	95.40
ATOM	6853	CD	LYS	911	-21.686	22.213	100.650	1.00	97.51
ATOM	6854	CE	LYS	911	-22.166	21.756	102.011	1.00	98.70
ATOM	6855	NZ	LYS	911	-21.047	21.216	102.831	1.00	98.70
ATOM	6856	C	LYS	911	-22.508	19.941	97.695	1.00	100.00
ATOM	6857	O	LYS	911	-22.663	18.866	98.287	1.00	98.70
ATOM	6858	N	GLU	912	-23.529	20.703	97.304	1.00	100.00
ATOM	6859	CA	GLU	912	-24.909	20.323	97.607	1.00	100.00
ATOM	6860	CB	GLU	912	-25.533	21.344	98.574	1.00	100.00
ATOM	6861	CG	GLU	912	-25.137	21.198	100.045	1.00	100.00
ATOM	6862	CD	GLU	912	-25.689	19.938	100.699	1.00	100.00
ATOM	6863	OE1	GLU	912	-26.891	19.633	100.505	1.00	100.00
ATOM	6864	OE2	GLU	912	-24.916	19.263	101.418	1.00	100.00
ATOM	6865	C	GLU	912	-25.886	20.102	96.458	1.00	100.00
ATOM	6866	O	GLU	912	-25.586	20.352	95.284	1.00	100.00
ATOM	6867	N	ASN	913	-27.059	19.607	96.858	1.00	100.00
ATOM	6868	CA	ASN	913	-28.214	19.337	96.009	1.00	100.00
ATOM	6869	CB	ASN	913	-29.205	20.513	96.152	1.00	100.00
ATOM	6870	CG	ASN	913	-30.624	20.167	95.703	1.00	100.00
ATOM	6871	OD1	ASN	913	-31.010	18.997	95.640	1.00	100.00
ATOM	6872	ND2	ASN	913	-31.411	21.197	95.400	1.00	100.00
ATOM	6873	C	ASN	913	-27.932	19.023	94.532	1.00	100.00
ATOM	6874	O	ASN	913	-27.159	18.110	94.212	1.00	100.00
ATOM	6875	N	GLN	914	-28.554	19.804	93.646	1.00	100.00
ATOM	6876	CA	GLN	914	-28.438	19.624	92.206	1.00	100.00
ATOM	6877	CB	GLN	914	-29.826	19.385	91.597	1.00	100.00
ATOM	6878	CG	GLN	914	-30.493	18.085	92.036	1.00	100.00
ATOM	6879	CD	GLN	914	-29.663	16.858	91.696	1.00	100.00
ATOM	6880	OE1	GLN	914	-29.728	16.342	90.579	1.00	100.00
ATOM	6881	NE2	GLN	914	-28.874	16.389	92.659	1.00	100.00
ATOM	6882	C	GLN	914	-27.729	20.741	91.450	1.00	100.00
ATOM	6883	O	GLN	914	-28.366	21.560	90.781	1.00	99.11
ATOM	6884	N	ASN	915	-26.406	20.775	91.581	1.00	100.00
ATOM	6885	CA	ASN	915	-25.570	21.744	90.872	1.00	100.00
ATOM	6886	CB	ASN	915	-24.320	22.070	91.701	1.00	80.14
ATOM	6887	CG	ASN	915	-23.415	20.858	91.900	1.00	69.26
ATOM	6888	OD1	ASN	915	-22.471	20.644	91.138	1.00	61.48
ATOM	6889	ND2	ASN	915	-23.707	20.056	92.921	1.00	67.74
ATOM	6890	C	ASN	915	-25.163	21.037	89.572	1.00	100.00
ATOM	6891	O	ASN	915	-24.470	21.600	88.720	1.00	83.64
ATOM	6892	N	HIS	916	-25.647	19.800	89.447	1.00	100.00

ATOM	6893	CA	HIS	916	-25.389	18.895	88.332	1.00100.00
ATOM	6894	CB	HIS	916	-26.218	17.609	88.512	1.00100.00
ATOM	6895	CG	HIS	916	-27.689	17.795	88.298	1.00100.00
ATOM	6896	CD2	HIS	916	-28.607	17.006	87.677	1.00100.00
ATOM	6897	ND1	HIS	916	-28.378	18.910	88.725	1.00100.00
ATOM	6898	CE1	HIS	916	-29.648	18.806	88.376	1.00100.00
ATOM	6899	NE2	HIS	916	-29.811	17.661	87.740	1.00100.00
ATOM	6900	C	HIS	916	-25.525	19.418	86.890	1.00100.00
ATOM	6901	O	HIS	916	-24.717	19.047	86.030	1.00100.00
ATOM	6902	N	SER	917	-26.529	20.252	86.609	1.00 99.90
ATOM	6903	CA	SER	917	-26.707	20.764	85.246	1.00 98.35
ATOM	6904	CB	SER	917	-27.198	19.647	84.307	1.00 90.95
ATOM	6905	OG	SER	917	-28.383	19.029	84.780	1.00 87.68
ATOM	6906	C	SER	917	-27.587	22.005	85.086	1.00 98.03
ATOM	6907	O	SER	917	-28.733	22.038	85.543	1.00 96.30
ATOM	6908	N	TYR	918	-27.033	23.008	84.403	1.00 63.23
ATOM	6909	CA	TYR	918	-27.711	24.273	84.132	1.00 49.94
ATOM	6910	CB	TYR	918	-26.994	25.433	84.835	1.00 89.25
ATOM	6911	CG	TYR	918	-26.681	25.232	86.307	1.00 93.12
ATOM	6912	CD1	TYR	918	-27.583	25.628	87.300	1.00 96.91
ATOM	6913	CE1	TYR	918	-27.256	25.525	88.663	1.00 97.77
ATOM	6914	CD2	TYR	918	-25.449	24.713	86.711	1.00100.00
ATOM	6915	CE2	TYR	918	-25.111	24.605	88.067	1.00100.00
ATOM	6916	CZ	TYR	918	-26.016	25.013	89.040	1.00 99.05
ATOM	6917	OH	TYR	918	-25.663	24.937	90.377	1.00 96.59
ATOM	6918	C	TYR	918	-27.700	24.546	82.624	1.00 46.11
ATOM	6919	O	TYR	918	-26.761	24.163	81.921	1.00 84.42
ATOM	6920	N	SER	919	-28.741	25.218	82.135	1.00 46.30
ATOM	6921	CA	SER	919	-28.847	25.566	80.717	1.00 40.08
ATOM	6922	CB	SER	919	-29.996	24.809	80.050	1.00 28.67
ATOM	6923	OG	SER	919	-30.225	25.289	78.736	1.00 18.70
ATOM	6924	C	SER	919	-29.046	27.067	80.546	1.00 44.26
ATOM	6925	O	SER	919	-30.152	27.580	80.670	1.00 57.02
ATOM	6926	N	LEU	920	-27.958	27.754	80.232	1.00 41.08
ATOM	6927	CA	LEU	920	-27.948	29.199	80.044	1.00 37.25
ATOM	6928	CB	LEU	920	-26.505	29.695	80.090	1.00 14.54
ATOM	6929	CG	LEU	920	-25.539	28.880	80.959	1.00 20.48
ATOM	6930	CD1	LEU	920	-24.303	29.697	81.166	1.00 13.53
ATOM	6931	CD2	LEU	920	-26.128	28.502	82.308	1.00 17.74
ATOM	6932	C	LEU	920	-28.609	29.601	78.722	1.00 43.65
ATOM	6933	O	LEU	920	-28.007	29.507	77.648	1.00 37.02
ATOM	6934	N	LYS	921	-29.850	30.064	78.815	1.00 50.38
ATOM	6935	CA	LYS	921	-30.609	30.455	77.638	1.00 44.58
ATOM	6936	CB	LYS	921	-32.096	30.160	77.847	1.00 33.03
ATOM	6937	CG	LYS	921	-32.886	30.063	76.561	1.00 30.07
ATOM	6938	CD	LYS	921	-34.389	29.922	76.805	1.00 44.20
ATOM	6939	CE	LYS	921	-35.069	31.280	77.040	1.00 56.06
ATOM	6940	NZ	LYS	921	-36.565	31.216	76.911	1.00 53.07
ATOM	6941	C	LYS	921	-30.411	31.920	77.270	1.00 44.81
ATOM	6942	O	LYS	921	-30.345	32.802	78.127	1.00 38.01
ATOM	6943	N	SER	922	-30.310	32.159	75.972	1.00 43.88
ATOM	6944	CA	SER	922	-30.126	33.491	75.429	1.00 34.81
ATOM	6945	CB	SER	922	-28.730	33.611	74.844	1.00 10.55
ATOM	6946	OG	SER	922	-28.554	34.853	74.208	1.00 15.01
ATOM	6947	C	SER	922	-31.146	33.556	74.324	1.00 35.24
ATOM	6948	O	SER	922	-31.317	32.578	73.599	1.00 2.79
ATOM	6949	N	SER	923	-31.804	34.701	74.170	1.00 24.16

ATOM	6950	CA	SER	923	-32.835	34.833	73.146	1.00	26.73
ATOM	6951	CB	SER	923	-34.188	34.379	73.702	1.00	49.39
ATOM	6952	OG	SER	923	-34.463	34.998	74.948	1.00	68.23
ATOM	6953	C	SER	923	-32.973	36.214	72.550	1.00	25.40
ATOM	6954	O	SER	923	-33.204	37.196	73.257	1.00	56.68
ATOM	6955	N	ALA	924	-32.863	36.276	71.231	1.00	24.04
ATOM	6956	CA	ALA	924	-32.985	37.539	70.520	1.00	18.43
ATOM	6957	CB	ALA	924	-31.736	37.821	69.692	1.00	8.34
ATOM	6958	C	ALA	924	-34.218	37.550	69.635	1.00	18.59
ATOM	6959	O	ALA	924	-34.598	36.525	69.078	1.00	2.00
ATOM	6960	N	SER	925	-34.840	38.724	69.532	1.00	30.98
ATOM	6961	CA	SER	925	-36.041	38.932	68.723	1.00	30.38
ATOM	6962	CB	SER	925	-37.261	39.117	69.624	1.00	40.95
ATOM	6963	OG	SER	925	-37.047	40.153	70.569	1.00	57.18
ATOM	6964	C	SER	925	-35.873	40.152	67.820	1.00	21.99
ATOM	6965	O	SER	925	-34.992	40.988	68.052	1.00	27.56
ATOM	6966	N	PHE	926	-36.723	40.252	66.796	1.00	9.50
ATOM	6967	CA	PHE	926	-36.657	41.369	65.845	1.00	23.44
ATOM	6968	CB	PHE	926	-35.779	40.994	64.631	1.00	26.68
ATOM	6969	CG	PHE	926	-36.501	40.201	63.560	1.00	30.64
ATOM	6970	CD1	PHE	926	-36.928	40.820	62.389	1.00	30.16
ATOM	6971	CD2	PHE	926	-36.754	38.842	63.723	1.00	33.12
ATOM	6972	CE1	PHE	926	-37.598	40.094	61.400	1.00	37.07
ATOM	6973	CE2	PHE	926	-37.420	38.116	62.740	1.00	33.78
ATOM	6974	CZ	PHE	926	-37.843	38.741	61.579	1.00	37.58
ATOM	6975	C	PHE	926	-38.021	41.857	65.352	1.00	31.93
ATOM	6976	O	PHE	926	-38.999	41.122	65.376	1.00	35.63
ATOM	6977	N	ASN	927	-38.073	43.106	64.902	1.00	16.65
ATOM	6978	CA	ASN	927	-39.304	43.685	64.368	1.00	12.42
ATOM	6979	CB	ASN	927	-40.095	44.412	65.460	1.00	33.08
ATOM	6980	CG	ASN	927	-41.454	44.911	64.975	1.00	47.85
ATOM	6981	OD1	ASN	927	-41.987	44.444	63.962	1.00	58.38
ATOM	6982	ND2	ASN	927	-42.021	45.865	65.705	1.00	54.58
ATOM	6983	C	ASN	927	-38.957	44.642	63.232	1.00	3.60
ATOM	6984	O	ASN	927	-38.299	45.663	63.448	1.00	7.04
ATOM	6985	N	VAL	928	-39.319	44.249	62.011	1.00	3.15
ATOM	6986	CA	VAL	928	-39.059	45.067	60.837	1.00	10.09
ATOM	6987	CB	VAL	928	-39.178	44.274	59.531	1.00	10.78
ATOM	6988	CG1	VAL	928	-38.884	45.173	58.377	1.00	3.17
ATOM	6989	CG2	VAL	928	-38.197	43.122	59.524	1.00	12.18
ATOM	6990	C	VAL	928	-40.119	46.138	60.900	1.00	18.54
ATOM	6991	O	VAL	928	-41.309	45.868	60.702	1.00	28.26
ATOM	6992	N	ILE	929	-39.662	47.340	61.244	1.00	20.18
ATOM	6993	CA	ILE	929	-40.506	48.517	61.430	1.00	11.77
ATOM	6994	CB	ILE	929	-39.903	49.436	62.510	1.00	2.00
ATOM	6995	CG2	ILE	929	-39.832	48.734	63.827	1.00	2.85
ATOM	6996	CG1	ILE	929	-38.492	49.863	62.102	1.00	2.00
ATOM	6997	CD1	ILE	929	-37.742	50.614	63.169	1.00	8.24
ATOM	6998	C	ILE	929	-40.744	49.392	60.208	1.00	12.51
ATOM	6999	O	ILE	929	-41.780	50.058	60.136	1.00	12.99
ATOM	7000	N	GLU	930	-39.807	49.389	59.254	1.00	28.83
ATOM	7001	CA	GLU	930	-39.926	50.248	58.076	1.00	28.92
ATOM	7002	CB	GLU	930	-39.297	51.602	58.415	1.00	48.69
ATOM	7003	CG	GLU	930	-39.510	52.704	57.404	1.00	73.53
ATOM	7004	CD	GLU	930	-38.855	54.002	57.839	1.00	87.95
ATOM	7005	OE1	GLU	930	-37.778	54.338	57.294	1.00	96.85
ATOM	7006	OE2	GLU	930	-39.411	54.675	58.737	1.00	86.57

ATOM	7007	C	GLU	930	-39.339	49.710	56.759	1.00	24.19
ATOM	7008	O	GLU	930	-38.345	48.981	56.758	1.00	29.26
ATOM	7009	N	PHE	931	-39.986	50.085	55.649	1.00	21.08
ATOM	7010	CA	PHE	931	-39.603	49.710	54.275	1.00	22.19
ATOM	7011	CB	PHE	931	-40.645	48.774	53.642	1.00	11.44
ATOM	7012	CG	PHE	931	-40.981	47.547	54.466	1.00	19.80
ATOM	7013	CD1	PHE	931	-40.762	46.274	53.951	1.00	26.24
ATOM	7014	CD2	PHE	931	-41.594	47.660	55.712	1.00	13.31
ATOM	7015	CE1	PHE	931	-41.159	45.138	54.659	1.00	30.69
ATOM	7016	CE2	PHE	931	-41.989	46.527	56.424	1.00	33.86
ATOM	7017	CZ	PHE	931	-41.773	45.267	55.895	1.00	30.80
ATOM	7018	C	PHE	931	-39.548	51.017	53.452	1.00	31.32
ATOM	7019	O	PHE	931	-40.233	51.990	53.784	1.00	33.11
ATOM	7020	N	PRO	932	-38.794	51.038	52.334	1.00	43.06
ATOM	7021	CD	PRO	932	-37.982	49.939	51.779	1.00	4.66
ATOM	7022	CA	PRO	932	-38.664	52.232	51.490	1.00	50.73
ATOM	7023	CB	PRO	932	-37.307	52.007	50.852	1.00	21.08
ATOM	7024	CG	PRO	932	-37.404	50.552	50.498	1.00	2.00
ATOM	7025	C	PRO	932	-39.722	52.382	50.391	1.00	61.95
ATOM	7026	O	PRO	932	-39.442	52.992	49.352	1.00	43.50
ATOM	7027	N	TYR	933	-40.925	51.855	50.615	1.00	12.27
ATOM	7028	CA	TYR	933	-41.975	51.911	49.598	1.00	20.16
ATOM	7029	CB	TYR	933	-42.480	50.492	49.306	1.00	55.11
ATOM	7030	CG	TYR	933	-41.370	49.517	48.930	1.00	64.81
ATOM	7031	CD1	TYR	933	-41.194	48.317	49.628	1.00	64.47
ATOM	7032	CE1	TYR	933	-40.152	47.430	49.301	1.00	67.42
ATOM	7033	CD2	TYR	933	-40.475	49.807	47.894	1.00	67.25
ATOM	7034	CE2	TYR	933	-39.434	48.928	47.562	1.00	64.03
ATOM	7035	CZ	TYR	933	-39.280	47.746	48.269	1.00	65.16
ATOM	7036	OH	TYR	933	-38.261	46.887	47.939	1.00	63.65
ATOM	7037	C	TYR	933	-43.132	52.863	49.924	1.00	27.61
ATOM	7038	O	TYR	933	-43.485	53.720	49.107	1.00	55.96
ATOM	7039	N	LYS	934	-43.716	52.709	51.111	1.00	100.00
ATOM	7040	CA	LYS	934	-44.822	53.550	51.590	1.00	100.00
ATOM	7041	CB	LYS	934	-44.382	55.017	51.698	1.00	99.21
ATOM	7042	CG	LYS	934	-45.281	55.905	52.573	1.00	99.21
ATOM	7043	CD	LYS	934	-46.607	56.289	51.905	1.00	99.21
ATOM	7044	CE	LYS	934	-46.395	57.025	50.583	1.00	99.21
ATOM	7045	NZ	LYS	934	-47.678	57.337	49.889	1.00	92.50
ATOM	7046	C	LYS	934	-46.129	53.451	50.800	1.00	100.00
ATOM	7047	O	LYS	934	-47.206	53.374	51.401	1.00	99.21
ATOM	7048	N	ASN	935	-46.048	53.524	49.473	1.00	37.98
ATOM	7049	CA	ASN	935	-47.240	53.435	48.637	1.00	32.05
ATOM	7050	CB	ASN	935	-46.868	53.565	47.165	1.00	93.71
ATOM	7051	CG	ASN	935	-46.843	55.001	46.697	1.00	98.94
ATOM	7052	OD1	ASN	935	-46.589	55.273	45.523	1.00	97.13
ATOM	7053	ND2	ASN	935	-47.128	55.931	47.606	1.00	98.94
ATOM	7054	C	ASN	935	-48.021	52.144	48.857	1.00	30.63
ATOM	7055	O	ASN	935	-49.231	52.172	49.087	1.00	94.92
ATOM	7056	N	LEU	936	-47.314	51.018	48.803	1.00	61.64
ATOM	7057	CA	LEU	936	-47.913	49.699	48.996	1.00	55.82
ATOM	7058	CB	LEU	936	-46.961	48.604	48.498	1.00	38.44
ATOM	7059	CG	LEU	936	-46.504	48.569	47.038	1.00	39.74
ATOM	7060	CD1	LEU	936	-47.741	48.557	46.154	1.00	43.42
ATOM	7061	CD2	LEU	936	-45.586	49.748	46.695	1.00	50.32
ATOM	7062	C	LEU	936	-48.217	49.441	50.468	1.00	58.12
ATOM	7063	O	LEU	936	-47.532	49.956	51.349	1.00	43.42

ATOM	7064	N	PRO	937	-49.244	48.624	50.749	1.00	35.26
ATOM	7065	CD	PRO	937	-50.140	47.993	49.764	1.00	68.27
ATOM	7066	CA	PRO	937	-49.650	48.277	52.118	1.00	37.38
ATOM	7067	CB	PRO	937	-50.976	47.547	51.894	1.00	67.85
ATOM	7068	CG	PRO	937	-50.766	46.879	50.567	1.00	74.03
ATOM	7069	C	PRO	937	-48.621	47.365	52.806	1.00	40.00
ATOM	7070	O	PRO	937	-48.689	46.144	52.679	1.00	72.31
ATOM	7071	N	ILE	938	-47.676	47.964	53.528	1.00	35.82
ATOM	7072	CA	ILE	938	-46.627	47.211	54.217	1.00	33.41
ATOM	7073	CB	ILE	938	-45.279	47.984	54.202	1.00	98.47
ATOM	7074	CG2	ILE	938	-44.715	48.020	52.796	1.00	100.00
ATOM	7075	CG1	ILE	938	-45.457	49.415	54.724	1.00	100.00
ATOM	7076	CD1	ILE	938	-45.240	49.577	56.221	1.00	94.63
ATOM	7077	C	ILE	938	-46.969	46.796	55.651	1.00	35.25
ATOM	7078	O	ILE	938	-47.343	47.636	56.476	1.00	100.00
ATOM	7079	N	GLU	939	-46.852	45.496	55.942	1.00	62.65
ATOM	7080	CA	GLU	939	-47.141	44.971	57.281	1.00	69.07
ATOM	7081	CB	GLU	939	-48.101	43.773	57.223	1.00	91.06
ATOM	7082	CG	GLU	939	-47.548	42.529	56.550	1.00	99.08
ATOM	7083	CD	GLU	939	-47.375	42.689	55.047	1.00	99.65
ATOM	7084	OE1	GLU	939	-46.248	43.009	54.605	1.00	99.65
ATOM	7085	OE2	GLU	939	-48.365	42.482	54.308	1.00	99.65
ATOM	7086	C	GLU	939	-45.861	44.593	58.019	1.00	71.89
ATOM	7087	O	GLU	939	-44.823	44.368	57.397	1.00	95.52
ATOM	7088	N	ASP	940	-45.940	44.519	59.345	1.00	100.00
ATOM	7089	CA	ASP	940	-44.772	44.190	60.149	1.00	100.00
ATOM	7090	CB	ASP	940	-44.853	44.846	61.532	1.00	65.53
ATOM	7091	CG	ASP	940	-44.439	46.313	61.500	1.00	62.09
ATOM	7092	OD1	ASP	940	-44.739	46.996	60.493	1.00	58.67
ATOM	7093	OD2	ASP	940	-43.795	46.779	62.469	1.00	58.25
ATOM	7094	C	ASP	940	-44.379	42.717	60.247	1.00	100.00
ATOM	7095	O	ASP	940	-45.221	41.829	60.449	1.00	54.06
ATOM	7096	N	ILE	941	-43.075	42.503	60.054	1.00	15.96
ATOM	7097	CA	ILE	941	-42.402	41.211	60.077	1.00	3.12
ATOM	7098	CB	ILE	941	-41.295	41.197	59.012	1.00	2.00
ATOM	7099	CG2	ILE	941	-40.549	39.880	59.048	1.00	4.94
ATOM	7100	CG1	ILE	941	-41.898	41.489	57.628	1.00	5.37
ATOM	7101	CD1	ILE	941	-40.900	41.582	56.484	1.00	2.00
ATOM	7102	C	ILE	941	-41.756	41.119	61.443	1.00	9.27
ATOM	7103	O	ILE	941	-41.054	42.038	61.840	1.00	21.82
ATOM	7104	N	THR	942	-42.009	40.026	62.160	1.00	26.88
ATOM	7105	CA	THR	942	-41.472	39.817	63.512	1.00	35.68
ATOM	7106	CB	THR	942	-42.423	40.443	64.590	1.00	86.71
ATOM	7107	OG1	THR	942	-42.591	41.842	64.334	1.00	100.00
ATOM	7108	CG2	THR	942	-41.865	40.274	65.997	1.00	96.83
ATOM	7109	C	THR	942	-41.294	38.316	63.803	1.00	31.37
ATOM	7110	O	THR	942	-42.023	37.483	63.258	1.00	79.15
ATOM	7111	N	ASN	943	-40.322	37.982	64.655	1.00	22.54
ATOM	7112	CA	ASN	943	-40.025	36.598	65.038	1.00	15.30
ATOM	7113	CB	ASN	943	-39.674	35.785	63.793	1.00	35.70
ATOM	7114	CG	ASN	943	-40.008	34.326	63.935	1.00	41.93
ATOM	7115	OD1	ASN	943	-40.068	33.790	65.040	1.00	44.43
ATOM	7116	ND2	ASN	943	-40.232	33.678	62.800	1.00	53.19
ATOM	7117	C	ASN	943	-38.837	36.593	66.015	1.00	16.07
ATOM	7118	O	ASN	943	-38.154	37.607	66.172	1.00	30.87
ATOM	7119	N	SER	944	-38.579	35.455	66.658	1.00	4.88
ATOM	7120	CA	SER	944	-37.473	35.361	67.609	1.00	7.59

ATOM	7121	CB	SER	944	-37.998	35.510	69.030	1.00	31.70
ATOM	7122	OG	SER	944	-38.668	34.329	69.421	1.00	36.87
ATOM	7123	C	SER	944	-36.745	34.036	67.523	1.00	3.29
ATOM	7124	O	SER	944	-37.049	33.192	66.690	1.00	23.97
ATOM	7125	N	THR	945	-35.788	33.854	68.416	1.00	6.35
ATOM	7126	CA	THR	945	-35.030	32.616	68.490	1.00	2.31
ATOM	7127	CB	THR	945	-34.129	32.428	67.263	1.00	19.00
ATOM	7128	OG1	THR	945	-33.904	31.030	67.075	1.00	21.21
ATOM	7129	CG2	THR	945	-32.782	33.139	67.440	1.00	8.60
ATOM	7130	C	THR	945	-34.208	32.585	69.785	1.00	4.70
ATOM	7131	O	THR	945	-34.095	33.589	70.496	1.00	32.00
ATOM	7132	N	LEU	946	-33.671	31.424	70.115	1.00	30.97
ATOM	7133	CA	LEU	946	-32.872	31.313	71.317	1.00	27.14
ATOM	7134	CB	LEU	946	-33.683	30.679	72.451	1.00	2.46
ATOM	7135	CG	LEU	946	-34.372	29.323	72.280	1.00	8.55
ATOM	7136	CD1	LEU	946	-35.195	29.041	73.513	1.00	17.97
ATOM	7137	CD2	LEU	946	-35.265	29.302	71.064	1.00	2.00
ATOM	7138	C	LEU	946	-31.546	30.597	71.066	1.00	24.41
ATOM	7139	O	LEU	946	-31.274	30.115	69.961	1.00	3.26
ATOM	7140	N	VAL	947	-30.683	30.611	72.069	1.00	3.18
ATOM	7141	CA	VAL	947	-29.373	29.999	71.956	1.00	6.62
ATOM	7142	CB	VAL	947	-28.293	31.025	71.427	1.00	8.53
ATOM	7143	CG1	VAL	947	-26.903	30.479	71.598	1.00	8.55
ATOM	7144	CG2	VAL	947	-28.503	31.316	69.940	1.00	7.81
ATOM	7145	C	VAL	947	-29.007	29.518	73.340	1.00	16.99
ATOM	7146	O	VAL	947	-29.049	30.278	74.309	1.00	34.15
ATOM	7147	N	THR	948	-28.676	28.239	73.431	1.00	62.53
ATOM	7148	CA	THR	948	-28.308	27.646	74.702	1.00	55.40
ATOM	7149	CB	THR	948	-29.137	26.392	74.983	1.00	23.24
ATOM	7150	OG1	THR	948	-29.438	25.737	73.742	1.00	28.17
ATOM	7151	CG2	THR	948	-30.418	26.750	75.706	1.00	24.69
ATOM	7152	C	THR	948	-26.843	27.265	74.803	1.00	51.09
ATOM	7153	O	THR	948	-26.140	27.099	73.796	1.00	24.82
ATOM	7154	N	THR	949	-26.383	27.193	76.044	1.00	19.85
ATOM	7155	CA	THR	949	-25.026	26.790	76.349	1.00	18.44
ATOM	7156	CB	THR	949	-24.074	27.969	76.586	1.00	22.18
ATOM	7157	OG1	THR	949	-23.889	28.681	75.356	1.00	27.06
ATOM	7158	CG2	THR	949	-22.716	27.457	77.042	1.00	7.22
ATOM	7159	C	THR	949	-25.198	25.981	77.608	1.00	22.08
ATOM	7160	O	THR	949	-25.434	26.521	78.688	1.00	43.44
ATOM	7161	N	ASN	950	-25.138	24.668	77.435	1.00	48.11
ATOM	7162	CA	ASN	950	-25.326	23.739	78.526	1.00	45.56
ATOM	7163	CB	ASN	950	-26.043	22.518	77.980	1.00	24.61
ATOM	7164	CG	ASN	950	-27.300	22.901	77.235	1.00	28.70
ATOM	7165	OD1	ASN	950	-27.836	23.987	77.448	1.00	32.96
ATOM	7166	ND2	ASN	950	-27.771	22.041	76.345	1.00	48.07
ATOM	7167	C	ASN	950	-24.034	23.382	79.219	1.00	46.43
ATOM	7168	O	ASN	950	-23.079	22.929	78.583	1.00	28.90
ATOM	7169	N	VAL	951	-23.992	23.667	80.519	1.00	21.95
ATOM	7170	CA	VAL	951	-22.816	23.381	81.335	1.00	30.32
ATOM	7171	CB	VAL	951	-22.331	24.619	82.153	1.00	22.89
ATOM	7172	CG1	VAL	951	-21.760	25.675	81.220	1.00	28.96
ATOM	7173	CG2	VAL	951	-23.468	25.200	82.983	1.00	31.32
ATOM	7174	C	VAL	951	-23.091	22.222	82.278	1.00	38.04
ATOM	7175	O	VAL	951	-23.585	22.418	83.380	1.00	27.98
ATOM	7176	N	THR	952	-22.732	21.018	81.838	1.00	70.80
ATOM	7177	CA	THR	952	-22.944	19.792	82.608	1.00	71.86

ATOM	7178	CB	THR	952	-23.525	18.704	81.720	1.00	36.17
ATOM	7179	OG1	THR	952	-22.764	18.632	80.508	1.00	34.98
ATOM	7180	CG2	THR	952	-24.977	18.996	81.406	1.00	38.16
ATOM	7181	C	THR	952	-21.697	19.210	83.258	1.00	77.09
ATOM	7182	O	THR	952	-20.573	19.565	82.907	1.00	41.11
ATOM	7183	N	TRP	953	-21.916	18.272	84.176	1.00	73.51
ATOM	7184	CA	TRP	953	-20.834	17.605	84.885	1.00	76.65
ATOM	7185	CB	TRP	953	-21.209	17.422	86.349	1.00	73.13
ATOM	7186	CG	TRP	953	-21.052	18.662	87.172	1.00	78.19
ATOM	7187	CD2	TRP	953	-19.864	19.100	87.840	1.00	79.97
ATOM	7188	CE2	TRP	953	-20.189	20.284	88.542	1.00	81.14
ATOM	7189	CE3	TRP	953	-18.551	18.608	87.918	1.00	82.32
ATOM	7190	CD1	TRP	953	-22.021	19.571	87.479	1.00	76.49
ATOM	7191	NE1	TRP	953	-21.515	20.547	88.305	1.00	82.32
ATOM	7192	CZ2	TRP	953	-19.255	20.983	89.317	1.00	82.32
ATOM	7193	CZ3	TRP	953	-17.620	19.301	88.689	1.00	82.32
ATOM	7194	CH2	TRP	953	-17.979	20.479	89.377	1.00	81.98
ATOM	7195	C	TRP	953	-20.494	16.253	84.263	1.00	74.17
ATOM	7196	O	TRP	953	-19.320	15.916	84.084	1.00	50.83
ATOM	7197	N	CYS	1005	-44.234	9.385	10.667	1.00	75.24
ATOM	7198	CA	CYS	1005	-43.764	9.193	12.034	1.00	80.96
ATOM	7199	CB	CYS	1005	-42.279	9.550	12.131	1.00	65.42
ATOM	7200	SG	CYS	1005	-41.386	8.768	13.487	1.00	79.15
ATOM	7201	C	CYS	1005	-44.580	10.128	12.911	1.00	78.75
ATOM	7202	O	CYS	1005	-44.684	11.317	12.600	1.00	48.86
ATOM	7203	N	THR	1006	-45.136	9.587	14.002	1.00	43.16
ATOM	7204	CA	THR	1006	-45.983	10.330	14.955	1.00	55.09
ATOM	7205	CB	THR	1006	-45.216	11.487	15.722	1.00	95.07
ATOM	7206	OG1	THR	1006	-44.630	12.422	14.801	1.00	92.83
ATOM	7207	CG2	THR	1006	-44.138	10.922	16.624	1.00	98.99
ATOM	7208	C	THR	1006	-47.232	10.898	14.274	1.00	60.35
ATOM	7209	O	THR	1006	-48.106	10.147	13.828	1.00	98.99
ATOM	7210	N	THR	1007	-47.302	12.227	14.209	1.00	100.00
ATOM	7211	CA	THR	1007	-48.403	12.949	13.576	1.00	100.00
ATOM	7212	CB	THR	1007	-49.021	13.989	14.548	1.00	99.53
ATOM	7213	OG1	THR	1007	-49.327	13.355	15.799	1.00	99.53
ATOM	7214	CG2	THR	1007	-50.304	14.577	13.964	1.00	99.53
ATOM	7215	C	THR	1007	-47.806	13.663	12.354	1.00	100.00
ATOM	7216	O	THR	1007	-47.912	14.884	12.204	1.00	99.53
ATOM	7217	N	ARG	1008	-47.151	12.879	11.501	1.00	100.00
ATOM	7218	CA	ARG	1008	-46.507	13.394	10.299	1.00	100.00
ATOM	7219	CB	ARG	1008	-45.258	14.207	10.693	1.00	86.49
ATOM	7220	CG	ARG	1008	-44.637	15.074	9.593	1.00	84.43
ATOM	7221	CD	ARG	1008	-45.597	16.130	9.058	1.00	85.26
ATOM	7222	NE	ARG	1008	-46.647	15.553	8.220	1.00	93.92
ATOM	7223	CZ	ARG	1008	-46.998	16.006	7.018	1.00	93.92
ATOM	7224	NH1	ARG	1008	-46.389	17.059	6.483	1.00	93.92
ATOM	7225	NH2	ARG	1008	-47.972	15.402	6.349	1.00	92.27
ATOM	7226	C	ARG	1008	-46.143	12.219	9.380	1.00	100.00
ATOM	7227	O	ARG	1008	-46.898	11.245	9.277	1.00	82.51
ATOM	7228	N	GLY	1009	-44.976	12.303	8.746	1.00	100.00
ATOM	7229	CA	GLY	1009	-44.533	11.266	7.833	1.00	100.00
ATOM	7230	C	GLY	1009	-44.688	11.728	6.396	1.00	100.00
ATOM	7231	O	GLY	1009	-45.666	11.388	5.731	1.00	97.41
ATOM	7232	N	VAL	1010	-43.725	12.517	5.923	1.00	100.00
ATOM	7233	CA	VAL	1010	-43.748	13.051	4.560	1.00	100.00
ATOM	7234	CB	VAL	1010	-42.938	14.379	4.461	1.00	100.00

ATOM	7235	CG1	VAL	1010	-43.187	15.074	3.119	1.00100.00
ATOM	7236	CG2	VAL	1010	-43.288	15.305	5.615	1.00100.00
ATOM	7237	C	VAL	1010	-43.154	12.067	3.557	1.00100.00
ATOM	7238	O	VAL	1010	-42.501	11.088	3.935	1.00100.00
ATOM	7239	N	SER	1011	-43.385	12.351	2.276	1.00100.00
ATOM	7240	CA	SER	1011	-42.863	11.552	1.169	1.00100.00
ATOM	7241	CB	SER	1011	-43.499	12.027	-0.147	1.00100.00
ATOM	7242	OG	SER	1011	-43.041	11.279	-1.263	1.00100.00
ATOM	7243	C	SER	1011	-41.340	11.748	1.125	1.00100.00
ATOM	7244	O	SER	1011	-40.642	11.194	0.275	1.00100.00
ATOM	7245	N	SER	1012	-40.849	12.552	2.061	1.00 99.86
ATOM	7246	CA	SER	1012	-39.440	12.872	2.203	1.00 99.86
ATOM	7247	CB	SER	1012	-39.339	14.190	2.969	1.00 76.80
ATOM	7248	OG	SER	1012	-40.175	15.178	2.381	1.00 51.71
ATOM	7249	C	SER	1012	-38.754	11.724	2.959	1.00 99.86
ATOM	7250	O	SER	1012	-39.013	11.517	4.145	1.00 89.62
ATOM	7251	N	CYS	1013	-37.868	11.004	2.268	1.00 82.44
ATOM	7252	CA	CYS	1013	-37.170	9.835	2.822	1.00 76.98
ATOM	7253	CB	CYS	1013	-36.488	9.038	1.720	1.00 84.23
ATOM	7254	SG	CYS	1013	-35.547	7.661	2.403	1.00 96.17
ATOM	7255	C	CYS	1013	-36.184	9.969	3.978	1.00 72.26
ATOM	7256	O	CYS	1013	-36.465	9.504	5.081	1.00 68.20
ATOM	7257	N	GLN	1014	-34.977	10.464	3.699	1.00 52.40
ATOM	7258	CA	GLN	1014	-33.987	10.627	4.760	1.00 53.39
ATOM	7259	CB	GLN	1014	-32.626	11.093	4.223	1.00 87.52
ATOM	7260	CG	GLN	1014	-32.639	12.358	3.382	1.00 95.18
ATOM	7261	CD	GLN	1014	-32.851	12.081	1.901	1.00100.00
ATOM	7262	OE1	GLN	1014	-32.810	12.998	1.077	1.00100.00
ATOM	7263	NE2	GLN	1014	-33.065	10.814	1.555	1.00100.00
ATOM	7264	C	GLN	1014	-34.521	11.607	5.795	1.00 49.38
ATOM	7265	O	GLN	1014	-34.036	11.660	6.927	1.00 81.11
ATOM	7266	N	GLN	1015	-35.540	12.366	5.394	1.00 33.78
ATOM	7267	CA	GLN	1015	-36.185	13.336	6.269	1.00 31.84
ATOM	7268	CB	GLN	1015	-37.068	14.303	5.469	1.00 84.95
ATOM	7269	CG	GLN	1015	-36.327	15.114	4.399	1.00 99.25
ATOM	7270	CD	GLN	1015	-36.241	14.406	3.044	1.00100.00
ATOM	7271	OE1	GLN	1015	-36.116	13.182	2.967	1.00100.00
ATOM	7272	NE2	GLN	1015	-36.345	15.182	1.968	1.00100.00
ATOM	7273	C	GLN	1015	-37.029	12.543	7.242	1.00 26.83
ATOM	7274	O	GLN	1015	-37.250	12.967	8.377	1.00 69.63
ATOM	7275	N	CYS	1016	-37.471	11.371	6.789	1.00 52.47
ATOM	7276	CA	CYS	1016	-38.278	10.475	7.606	1.00 59.64
ATOM	7277	CB	CYS	1016	-38.812	9.312	6.781	1.00 61.46
ATOM	7278	SG	CYS	1016	-39.477	7.996	7.804	1.00 79.25
ATOM	7279	C	CYS	1016	-37.478	9.934	8.778	1.00 59.35
ATOM	7280	O	CYS	1016	-38.053	9.476	9.760	1.00 50.56
ATOM	7281	N	LEU	1017	-36.155	9.928	8.640	1.00 85.18
ATOM	7282	CA	LEU	1017	-35.278	9.473	9.712	1.00 85.72
ATOM	7283	CB	LEU	1017	-34.004	8.824	9.163	1.00 43.82
ATOM	7284	CG	LEU	1017	-34.056	7.487	8.427	1.00 51.42
ATOM	7285	CD1	LEU	1017	-34.694	7.663	7.049	1.00 58.37
ATOM	7286	CD2	LEU	1017	-32.639	6.939	8.295	1.00 51.17
ATOM	7287	C	LEU	1017	-34.894	10.701	10.518	1.00 86.68
ATOM	7288	O	LEU	1017	-34.801	10.643	11.745	1.00 35.02
ATOM	7289	N	ALA	1018	-34.700	11.814	9.809	1.00 57.76
ATOM	7290	CA	ALA	1018	-34.315	13.091	10.405	1.00 64.58
ATOM	7291	CB	ALA	1018	-34.019	14.109	9.314	1.00 78.25

ATOM	7292	C	ALA	1018	-35.332	13.661	11.388	1.00	68.11
ATOM	7293	O	ALA	1018	-35.036	14.630	12.089	1.00	81.32
ATOM	7294	N	VAL	1019	-36.534	13.087	11.416	1.00	66.67
ATOM	7295	CA	VAL	1019	-37.573	13.544	12.335	1.00	61.86
ATOM	7296	CB	VAL	1019	-38.988	13.047	11.895	1.00	71.42
ATOM	7297	CG1	VAL	1019	-38.981	11.554	11.646	1.00	77.78
ATOM	7298	CG2	VAL	1019	-40.045	13.418	12.937	1.00	77.89
ATOM	7299	C	VAL	1019	-37.220	13.093	13.759	1.00	64.13
ATOM	7300	O	VAL	1019	-36.779	13.896	14.585	1.00	81.17
ATOM	7301	N	SER	1020	-37.413	11.810	14.038	1.00	98.59
ATOM	7302	CA	SER	1020	-37.079	11.231	15.332	1.00	100.00
ATOM	7303	CB	SER	1020	-38.341	10.864	16.127	1.00	81.27
ATOM	7304	OG	SER	1020	-39.114	9.890	15.451	1.00	84.35
ATOM	7305	C	SER	1020	-36.261	9.986	15.003	1.00	100.00
ATOM	7306	O	SER	1020	-36.428	9.391	13.934	1.00	82.69
ATOM	7307	N	PRO	1021	-35.338	9.600	15.896	1.00	74.52
ATOM	7308	CD	PRO	1021	-35.127	10.197	17.228	1.00	63.20
ATOM	7309	CA	PRO	1021	-34.479	8.430	15.713	1.00	75.09
ATOM	7310	CB	PRO	1021	-34.056	8.120	17.141	1.00	63.30
ATOM	7311	CG	PRO	1021	-33.889	9.488	17.711	1.00	64.28
ATOM	7312	C	PRO	1021	-35.203	7.247	15.077	1.00	77.84
ATOM	7313	O	PRO	1021	-34.866	6.825	13.967	1.00	68.37
ATOM	7314	N	MET	1022	-36.247	6.791	15.765	1.00	82.82
ATOM	7315	CA	MET	1022	-37.076	5.658	15.355	1.00	77.67
ATOM	7316	CB	MET	1022	-37.769	5.079	16.587	1.00	62.89
ATOM	7317	CG	MET	1022	-38.089	6.115	17.658	1.00	53.68
ATOM	7318	SD	MET	1022	-38.947	7.564	17.029	1.00	61.23
ATOM	7319	CE	MET	1022	-40.374	7.631	18.124	1.00	60.22
ATOM	7320	C	MET	1022	-38.124	5.939	14.275	1.00	74.45
ATOM	7321	O	MET	1022	-39.021	6.757	14.477	1.00	61.41
ATOM	7322	N	CYS	1023	-38.046	5.200	13.166	1.00	83.53
ATOM	7323	CA	CYS	1023	-38.981	5.352	12.045	1.00	86.39
ATOM	7324	CB	CYS	1023	-38.699	6.666	11.315	1.00	100.00
ATOM	7325	SG	CYS	1023	-38.628	8.116	12.390	1.00	100.00
ATOM	7326	C	CYS	1023	-38.909	4.183	11.043	1.00	84.94
ATOM	7327	O	CYS	1023	-38.063	3.291	11.178	1.00	100.00
ATOM	7328	N	ALA	1024	-39.799	4.192	10.046	1.00	88.74
ATOM	7329	CA	ALA	1024	-39.840	3.150	9.008	1.00	97.21
ATOM	7330	CB	ALA	1024	-40.854	2.069	9.362	1.00	99.59
ATOM	7331	C	ALA	1024	-40.172	3.741	7.640	1.00	98.56
ATOM	7332	O	ALA	1024	-40.858	4.761	7.550	1.00	99.59
ATOM	7333	N	TRP	1025	-39.719	3.074	6.577	1.00	100.00
ATOM	7334	CA	TRP	1025	-39.961	3.556	5.220	1.00	100.00
ATOM	7335	CB	TRP	1025	-38.719	4.279	4.685	1.00	92.61
ATOM	7336	CG	TRP	1025	-39.058	5.552	3.974	1.00	93.44
ATOM	7337	CD2	TRP	1025	-39.249	5.720	2.569	1.00	93.44
ATOM	7338	CE2	TRP	1025	-39.622	7.068	2.357	1.00	91.24
ATOM	7339	CE3	TRP	1025	-39.148	4.860	1.467	1.00	93.44
ATOM	7340	CD1	TRP	1025	-39.303	6.770	4.542	1.00	93.44
ATOM	7341	NE1	TRP	1025	-39.645	7.686	3.578	1.00	93.44
ATOM	7342	CZ2	TRP	1025	-39.891	7.578	1.085	1.00	88.04
ATOM	7343	CZ3	TRP	1025	-39.416	5.369	0.198	1.00	93.44
ATOM	7344	CH2	TRP	1025	-39.786	6.717	0.020	1.00	92.89
ATOM	7345	C	TRP	1025	-40.420	2.483	4.228	1.00	100.00
ATOM	7346	O	TRP	1025	-41.419	2.679	3.533	1.00	93.44
ATOM	7347	N	CYS	1026	-39.663	1.384	4.149	1.00	100.00
ATOM	7348	CA	CYS	1026	-39.933	0.228	3.268	1.00	100.00

ATOM	7349	CB	CYS	1026	-40.296	-1.002	4.117	1.00100.00
ATOM	7350	SG	CYS	1026	-39.020	-1.523	5.328	1.00100.00
ATOM	7351	C	CYS	1026	-40.991	0.447	2.178	1.00100.00
ATOM	7352	O	CYS	1026	-42.168	0.111	2.356	1.00 99.02
ATOM	7353	N	SER	1027	-40.548	0.974	1.039	1.00100.00
ATOM	7354	CA	SER	1027	-41.433	1.291	-0.084	1.00100.00
ATOM	7355	CB	SER	1027	-40.875	2.507	-0.845	1.00 78.40
ATOM	7356	OG	SER	1027	-39.517	2.323	-1.219	1.00 78.40
ATOM	7357	C	SER	1027	-41.803	0.182	-1.084	1.00100.00
ATOM	7358	O	SER	1027	-41.792	-1.013	-0.767	1.00 73.33
ATOM	7359	N	ASP	1028	-42.223	0.639	-2.265	1.00100.00
ATOM	7360	CA	ASP	1028	-42.615	-0.183	-3.413	1.00100.00
ATOM	7361	CB	ASP	1028	-41.567	-1.277	-3.688	1.00100.00
ATOM	7362	CG	ASP	1028	-41.650	-1.836	-5.109	1.00100.00
ATOM	7363	OD1	ASP	1028	-42.082	-1.108	-6.035	1.00 99.27
ATOM	7364	OD2	ASP	1028	-41.268	-3.009	-5.302	1.00100.00
ATOM	7365	C	ASP	1028	-44.030	-0.771	-3.426	1.00100.00
ATOM	7366	O	ASP	1028	-44.946	-0.190	-4.020	1.00100.00
ATOM	7367	N	GLU	1029	-44.198	-1.926	-2.788	1.00100.00
ATOM	7368	CA	GLU	1029	-45.486	-2.619	-2.762	1.00100.00
ATOM	7369	CB	GLU	1029	-45.268	-4.123	-2.564	1.00100.00
ATOM	7370	CG	GLU	1029	-44.388	-4.779	-3.636	1.00100.00
ATOM	7371	CD	GLU	1029	-45.007	-4.754	-5.032	1.00100.00
ATOM	7372	OE1	GLU	1029	-44.896	-3.717	-5.730	1.00100.00
ATOM	7373	OE2	GLU	1029	-45.591	-5.785	-5.436	1.00100.00
ATOM	7374	C	GLU	1029	-46.498	-2.101	-1.750	1.00100.00
ATOM	7375	O	GLU	1029	-47.667	-2.495	-1.780	1.00100.00
ATOM	7376	N	ALA	1030	-46.054	-1.212	-0.867	1.00100.00
ATOM	7377	CA	ALA	1030	-46.925	-0.636	0.151	1.00100.00
ATOM	7378	CB	ALA	1030	-46.125	0.331	1.027	1.00 82.01
ATOM	7379	C	ALA	1030	-48.132	0.079	-0.469	1.00100.00
ATOM	7380	O	ALA	1030	-48.186	0.283	-1.687	1.00 75.78
ATOM	7381	N	LEU	1031	-49.127	0.387	0.363	1.00100.00
ATOM	7382	CA	LEU	1031	-50.317	1.107	-0.092	1.00100.00
ATOM	7383	CB	LEU	1031	-51.481	0.921	0.888	1.00100.00
ATOM	7384	CG	LEU	1031	-52.468	-0.222	0.621	1.00100.00
ATOM	7385	CD1	LEU	1031	-53.264	0.054	-0.660	1.00100.00
ATOM	7386	CD2	LEU	1031	-51.723	-1.549	0.535	1.00100.00
ATOM	7387	C	LEU	1031	-49.941	2.584	-0.182	1.00100.00
ATOM	7388	O	LEU	1031	-49.853	3.274	0.842	1.00100.00
ATOM	7389	N	PRO	1032	-49.733	3.090	-1.416	1.00100.00
ATOM	7390	CD	PRO	1032	-49.978	2.365	-2.679	1.00100.00
ATOM	7391	CA	PRO	1032	-49.353	4.487	-1.682	1.00100.00
ATOM	7392	CB	PRO	1032	-49.259	4.529	-3.215	1.00100.00
ATOM	7393	CG	PRO	1032	-50.249	3.486	-3.650	1.00100.00
ATOM	7394	C	PRO	1032	-50.285	5.578	-1.130	1.00100.00
ATOM	7395	O	PRO	1032	-49.825	6.579	-0.557	1.00100.00
ATOM	7396	N	LEU	1033	-51.589	5.358	-1.275	1.00100.00
ATOM	7397	CA	LEU	1033	-52.595	6.311	-0.827	1.00100.00
ATOM	7398	CB	LEU	1033	-53.842	6.207	-1.720	1.00 99.32
ATOM	7399	CG	LEU	1033	-54.619	4.891	-1.875	1.00 99.36
ATOM	7400	CD1	LEU	1033	-55.811	5.147	-2.784	1.00 99.98
ATOM	7401	CD2	LEU	1033	-53.755	3.765	-2.439	1.00 99.98
ATOM	7402	C	LEU	1033	-52.974	6.247	0.659	1.00100.00
ATOM	7403	O	LEU	1033	-52.673	7.176	1.417	1.00 99.98
ATOM	7404	N	GLY	1034	-53.593	5.138	1.065	1.00100.00
ATOM	7405	CA	GLY	1034	-54.042	4.954	2.439	1.00100.00

ATOM	7406	C	GLY	1034	-53.103	5.291	3.586	1.00100.00
ATOM	7407	O	GLY	1034	-53.196	6.370	4.172	1.00 86.30
ATOM	7408	N	SER	1035	-52.241	4.344	3.942	1.00100.00
ATOM	7409	CA	SER	1035	-51.288	4.530	5.031	1.00100.00
ATOM	7410	CB	SER	1035	-50.867	3.169	5.587	1.00 99.87
ATOM	7411	OG	SER	1035	-50.326	2.349	4.564	1.00 99.87
ATOM	7412	C	SER	1035	-50.050	5.322	4.597	1.00100.00
ATOM	7413	O	SER	1035	-49.628	5.247	3.437	1.00 99.87
ATOM	7414	N	PRO	1036	-49.480	6.125	5.521	1.00100.00
ATOM	7415	CD	PRO	1036	-50.134	6.449	6.801	1.00 97.09
ATOM	7416	CA	PRO	1036	-48.290	6.972	5.331	1.00100.00
ATOM	7417	CB	PRO	1036	-48.257	7.806	6.615	1.00 99.46
ATOM	7418	CG	PRO	1036	-49.699	7.873	7.015	1.00 99.46
ATOM	7419	C	PRO	1036	-46.982	6.188	5.163	1.00100.00
ATOM	7420	O	PRO	1036	-46.903	5.010	5.515	1.00 99.46
ATOM	7421	N	ARG	1037	-45.958	6.859	4.641	1.00 99.74
ATOM	7422	CA	ARG	1037	-44.649	6.242	4.422	1.00 99.74
ATOM	7423	CB	ARG	1037	-44.103	6.639	3.042	1.00100.00
ATOM	7424	CG	ARG	1037	-45.001	6.295	1.858	1.00100.00
ATOM	7425	CD	ARG	1037	-44.861	4.841	1.415	1.00100.00
ATOM	7426	NE	ARG	1037	-45.648	4.572	0.209	1.00100.00
ATOM	7427	CZ	ARG	1037	-45.139	4.205	-0.967	1.00100.00
ATOM	7428	NH1	ARG	1037	-43.829	4.046	-1.119	1.00100.00
ATOM	7429	NH2	ARG	1037	-45.943	4.032	-2.009	1.00100.00
ATOM	7430	C	ARG	1037	-43.654	6.669	5.511	1.00 99.74
ATOM	7431	O	ARG	1037	-42.585	7.210	5.201	1.00 99.73
ATOM	7432	N	CYS	1038	-44.003	6.417	6.776	1.00 99.46
ATOM	7433	CA	CYS	1038	-43.150	6.786	7.909	1.00 99.46
ATOM	7434	CB	CYS	1038	-42.829	8.287	7.842	1.00100.00
ATOM	7435	SG	CYS	1038	-41.711	8.936	9.108	1.00100.00
ATOM	7436	C	CYS	1038	-43.795	6.464	9.261	1.00 97.73
ATOM	7437	O	CYS	1038	-44.869	6.986	9.576	1.00100.00
ATOM	7438	N	ASP	1039	-43.143	5.598	10.042	1.00 84.86
ATOM	7439	CA	ASP	1039	-43.617	5.217	11.380	1.00 84.37
ATOM	7440	CB	ASP	1039	-45.088	4.801	11.357	1.00100.00
ATOM	7441	CG	ASP	1039	-45.803	5.137	12.654	1.00100.00
ATOM	7442	OD1	ASP	1039	-46.814	5.868	12.593	1.00100.00
ATOM	7443	OD2	ASP	1039	-45.345	4.693	13.734	1.00100.00
ATOM	7444	C	ASP	1039	-42.798	4.089	12.007	1.00 80.82
ATOM	7445	O	ASP	1039	-42.553	3.076	11.359	1.00100.00
ATOM	7446	N	LEU	1040	-42.465	4.241	13.293	1.00 95.23
ATOM	7447	CA	LEU	1040	-41.669	3.265	14.061	1.00 95.23
ATOM	7448	CB	LEU	1040	-41.633	3.668	15.549	1.00 86.16
ATOM	7449	CG	LEU	1040	-40.589	3.138	16.557	1.00 86.91
ATOM	7450	CD1	LEU	1040	-41.001	3.573	17.955	1.00 86.91
ATOM	7451	CD2	LEU	1040	-40.426	1.627	16.533	1.00 85.99
ATOM	7452	C	LEU	1040	-42.189	1.829	13.949	1.00 95.23
ATOM	7453	O	LEU	1040	-42.900	1.358	14.840	1.00 76.05
ATOM	7454	N	LYS	1041	-41.788	1.134	12.880	1.00 71.28
ATOM	7455	CA	LYS	1041	-42.183	-0.253	12.602	1.00 71.87
ATOM	7456	CB	LYS	1041	-41.105	-1.235	13.079	1.00 92.36
ATOM	7457	CG	LYS	1041	-39.812	-1.166	12.276	1.00 92.32
ATOM	7458	CD	LYS	1041	-40.083	-1.284	10.774	1.00 95.43
ATOM	7459	CE	LYS	1041	-38.810	-1.119	9.942	1.00 99.45
ATOM	7460	NZ	LYS	1041	-39.072	-1.064	8.466	1.00 89.87
ATOM	7461	C	LYS	1041	-43.551	-0.641	13.156	1.00 76.44
ATOM	7462	O	LYS	1041	-43.770	-1.764	13.619	1.00100.00

ATOM	7463	N	GLU	1042	-44.453	0.330	13.139	1.00100.00
ATOM	7464	CA	GLU	1042	-45.808	0.150	13.618	1.00100.00
ATOM	7465	CB	GLU	1042	-46.343	1.475	14.152	1.00 99.90
ATOM	7466	CG	GLU	1042	-47.813	1.458	14.499	1.00100.00
ATOM	7467	CD	GLU	1042	-48.312	2.816	14.934	1.00100.00
ATOM	7468	OE1	GLU	1042	-48.459	3.030	16.156	1.00100.00
ATOM	7469	OE2	GLU	1042	-48.552	3.669	14.053	1.00100.00
ATOM	7470	C	GLU	1042	-46.613	-0.272	12.415	1.00100.00
ATOM	7471	O	GLU	1042	-47.470	-1.155	12.501	1.00100.00
ATOM	7472	N	ASN	1043	-46.299	0.349	11.282	1.00 98.37
ATOM	7473	CA	ASN	1043	-46.991	0.048	10.050	1.00 98.82
ATOM	7474	CB	ASN	1043	-46.975	1.248	9.103	1.00100.00
ATOM	7475	CG	ASN	1043	-48.242	1.335	8.256	1.00100.00
ATOM	7476	OD1	ASN	1043	-48.179	1.471	7.031	1.00100.00
ATOM	7477	ND2	ASN	1043	-49.402	1.242	8.912	1.00100.00
ATOM	7478	C	ASN	1043	-46.448	-1.206	9.373	1.00 96.42
ATOM	7479	O	ASN	1043	-46.300	-1.260	8.150	1.00100.00
ATOM	7480	N	LEU	1044	-46.120	-2.201	10.194	1.00 98.28
ATOM	7481	CA	LEU	1044	-45.651	-3.489	9.702	1.00 96.34
ATOM	7482	CB	LEU	1044	-45.341	-4.418	10.884	1.00 63.44
ATOM	7483	CG	LEU	1044	-43.897	-4.564	11.378	1.00 61.15
ATOM	7484	CD1	LEU	1044	-43.095	-3.310	11.085	1.00 58.63
ATOM	7485	CD2	LEU	1044	-43.882	-4.905	12.867	1.00 61.77
ATOM	7486	C	LEU	1044	-46.878	-3.986	8.962	1.00 96.44
ATOM	7487	O	LEU	1044	-47.083	-3.666	7.786	1.00 69.60
ATOM	7488	N	LEU	1045	-47.728	-4.698	9.695	1.00 97.70
ATOM	7489	CA	LEU	1045	-48.983	-5.205	9.166	1.00100.00
ATOM	7490	CB	LEU	1045	-49.976	-4.038	9.069	1.00 68.44
ATOM	7491	CG	LEU	1045	-50.455	-3.332	10.348	1.00 71.38
ATOM	7492	CD1	LEU	1045	-49.546	-3.579	11.562	1.00 63.40
ATOM	7493	CD2	LEU	1045	-50.596	-1.843	10.047	1.00 72.77
ATOM	7494	C	LEU	1045	-48.789	-5.872	7.801	1.00100.00
ATOM	7495	O	LEU	1045	-49.263	-5.370	6.772	1.00 80.34
ATOM	7496	N	LYS	1046	-48.060	-6.989	7.804	1.00 99.84
ATOM	7497	CA	LYS	1046	-47.756	-7.757	6.593	1.00 99.84
ATOM	7498	CB	LYS	1046	-49.034	-8.324	5.952	1.00100.00
ATOM	7499	CG	LYS	1046	-49.646	-9.505	6.703	1.00100.00
ATOM	7500	CD	LYS	1046	-50.770	-10.150	5.905	1.00100.00
ATOM	7501	CE	LYS	1046	-51.369	-11.332	6.652	1.00100.00
ATOM	7502	NZ	LYS	1046	-52.427	-12.009	5.849	1.00100.00
ATOM	7503	C	LYS	1046	-46.934	-6.994	5.548	1.00 99.84
ATOM	7504	O	LYS	1046	-46.115	-7.592	4.840	1.00 94.12
ATOM	7505	N	ASP	1047	-47.147	-5.681	5.462	1.00100.00
ATOM	7506	CA	ASP	1047	-46.431	-4.844	4.509	1.00100.00
ATOM	7507	CB	ASP	1047	-47.368	-3.803	3.894	1.00 99.89
ATOM	7508	CG	ASP	1047	-46.797	-3.183	2.625	1.00 99.89
ATOM	7509	OD1	ASP	1047	-47.340	-3.471	1.537	1.00 99.89
ATOM	7510	OD2	ASP	1047	-45.803	-2.422	2.708	1.00 99.89
ATOM	7511	C	ASP	1047	-45.208	-4.149	5.107	1.00100.00
ATOM	7512	O	ASP	1047	-45.335	-3.234	5.926	1.00 99.89
ATOM	7513	N	ASN	1048	-44.033	-4.589	4.653	1.00100.00
ATOM	7514	CA	ASN	1048	-42.726	-4.068	5.062	1.00100.00
ATOM	7515	CB	ASN	1048	-42.560	-4.106	6.588	1.00100.00
ATOM	7516	CG	ASN	1048	-42.545	-2.709	7.211	1.00100.00
ATOM	7517	OD1	ASN	1048	-43.484	-2.312	7.906	1.00100.00
ATOM	7518	ND2	ASN	1048	-41.474	-1.960	6.961	1.00100.00
ATOM	7519	C	ASN	1048	-41.608	-4.868	4.371	1.00100.00

ATOM	7520	O	ASN	1048	-41.875	-5.635	3.439	1.00100.00
ATOM	7521	N	CYS	1049	-40.366	-4.692	4.826	1.00 99.22
ATOM	7522	CA	CYS	1049	-39.218	-5.386	4.235	1.00 99.22
ATOM	7523	CB	CYS	1049	-38.300	-4.380	3.531	1.00 87.09
ATOM	7524	SG	CYS	1049	-39.151	-3.299	2.343	1.00 87.09
ATOM	7525	C	CYS	1049	-38.414	-6.181	5.255	1.00 99.22
ATOM	7526	O	CYS	1049	-37.313	-6.640	4.958	1.00 87.09
ATOM	7527	N	PHE	1056	-31.667	0.053	11.702	1.00100.00
ATOM	7528	CA	PHE	1056	-30.775	1.208	11.743	1.00100.00
ATOM	7529	CB	PHE	1056	-31.304	2.290	10.785	1.00100.00
ATOM	7530	CG	PHE	1056	-32.487	3.051	11.323	1.00100.00
ATOM	7531	CD1	PHE	1056	-32.425	4.433	11.482	1.00100.00
ATOM	7532	CD2	PHE	1056	-33.647	2.383	11.715	1.00 99.16
ATOM	7533	CE1	PHE	1056	-33.495	5.140	12.027	1.00100.00
ATOM	7534	CE2	PHE	1056	-34.724	3.079	12.263	1.00 95.74
ATOM	7535	CZ	PHE	1056	-34.646	4.460	12.419	1.00100.00
ATOM	7536	C	PHE	1056	-30.547	1.831	13.143	1.00100.00
ATOM	7537	O	PHE	1056	-30.175	3.002	13.234	1.00100.00
ATOM	7538	N	PRO	1057	-30.742	1.066	14.244	1.00 59.46
ATOM	7539	CD	PRO	1057	-31.240	-0.315	14.375	1.00100.00
ATOM	7540	CA	PRO	1057	-30.531	1.649	15.580	1.00 50.86
ATOM	7541	CB	PRO	1057	-30.917	0.505	16.521	1.00 92.77
ATOM	7542	CG	PRO	1057	-31.915	-0.276	15.721	1.00 99.56
ATOM	7543	C	PRO	1057	-29.110	2.132	15.856	1.00 44.63
ATOM	7544	O	PRO	1057	-28.182	1.880	15.080	1.00 84.97
ATOM	7545	N	VAL	1058	-28.952	2.806	16.988	1.00 31.49
ATOM	7546	CA	VAL	1058	-27.664	3.357	17.388	1.00 29.21
ATOM	7547	CB	VAL	1058	-27.863	4.670	18.161	1.00 60.57
ATOM	7548	CG1	VAL	1058	-28.126	5.800	17.192	1.00 59.41
ATOM	7549	CG2	VAL	1058	-29.041	4.536	19.123	1.00 66.38
ATOM	7550	C	VAL	1058	-26.774	2.412	18.206	1.00 25.78
ATOM	7551	O	VAL	1058	-27.140	1.995	19.309	1.00 57.23
ATOM	7552	N	SER	1059	-25.604	2.083	17.657	1.00 36.62
ATOM	7553	CA	SER	1059	-24.649	1.200	18.325	1.00 39.00
ATOM	7554	CB	SER	1059	-23.831	0.389	17.311	1.00 45.10
ATOM	7555	OG	SER	1059	-24.520	-0.776	16.891	1.00 50.70
ATOM	7556	C	SER	1059	-23.704	1.986	19.215	1.00 35.56
ATOM	7557	O	SER	1059	-23.627	3.210	19.134	1.00 40.68
ATOM	7558	N	GLU	1060	-22.949	1.248	20.020	1.00 40.24
ATOM	7559	CA	GLU	1060	-21.984	1.799	20.966	1.00 35.31
ATOM	7560	CB	GLU	1060	-22.697	2.041	22.287	1.00 62.55
ATOM	7561	CG	GLU	1060	-23.519	0.824	22.712	1.00 85.88
ATOM	7562	CD	GLU	1060	-24.028	0.909	24.137	1.00100.00
ATOM	7563	OE1	GLU	1060	-25.157	1.414	24.335	1.00100.00
ATOM	7564	OE2	GLU	1060	-23.304	0.457	25.056	1.00100.00
ATOM	7565	C	GLU	1060	-20.873	0.761	21.187	1.00 27.58
ATOM	7566	O	GLU	1060	-20.087	0.867	22.125	1.00 37.68
ATOM	7567	N	ALA	1061	-20.820	-0.229	20.298	1.00 20.07
ATOM	7568	CA	ALA	1061	-19.874	-1.346	20.350	1.00 18.77
ATOM	7569	CB	ALA	1061	-19.821	-2.051	18.966	1.00 2.00
ATOM	7570	C	ALA	1061	-18.452	-1.120	20.877	1.00 15.62
ATOM	7571	O	ALA	1061	-17.655	-0.407	20.264	1.00 2.00
ATOM	7572	N	ARG	1062	-18.147	-1.717	22.029	1.00 8.98
ATOM	7573	CA	ARG	1062	-16.797	-1.638	22.578	1.00 3.18
ATOM	7574	CB	ARG	1062	-16.736	-2.333	23.930	1.00 2.44
ATOM	7575	CG	ARG	1062	-15.327	-2.522	24.463	1.00 12.53
ATOM	7576	CD	ARG	1062	-14.659	-1.210	24.880	1.00 58.18

ATOM	7577	NE	ARG	1062	-15.104	-0.687	26.178	1.00	89.08
ATOM	7578	CZ	ARG	1062	-16.191	0.065	26.367	1.00	94.84
ATOM	7579	NH1	ARG	1062	-16.971	0.391	25.342	1.00	94.84
ATOM	7580	NH2	ARG	1062	-16.494	0.516	27.583	1.00	94.84
ATOM	7581	C	ARG	1062	-15.945	-2.408	21.558	1.00	7.06
ATOM	7582	O	ARG	1062	-16.373	-3.456	21.067	1.00	28.72
ATOM	7583	N	VAL	1063	-14.786	-1.869	21.183	1.00	24.04
ATOM	7584	CA	VAL	1063	-13.933	-2.536	20.191	1.00	33.01
ATOM	7585	CB	VAL	1063	-13.542	-1.583	18.996	1.00	20.27
ATOM	7586	CG1	VAL	1063	-13.113	-2.399	17.793	1.00	32.77
ATOM	7587	CG2	VAL	1063	-14.701	-0.684	18.588	1.00	12.94
ATOM	7588	C	VAL	1063	-12.665	-3.123	20.817	1.00	39.15
ATOM	7589	O	VAL	1063	-12.143	-4.123	20.333	1.00	37.45
ATOM	7590	N	LEU	1064	-12.195	-2.510	21.903	1.00	2.00
ATOM	7591	CA	LEU	1064	-10.985	-2.941	22.626	1.00	4.28
ATOM	7592	CB	LEU	1064	-9.740	-2.159	22.139	1.00	32.42
ATOM	7593	CG	LEU	1064	-8.346	-2.300	22.795	1.00	39.12
ATOM	7594	CD1	LEU	1064	-7.892	-3.745	22.784	1.00	48.94
ATOM	7595	CD2	LEU	1064	-7.316	-1.422	22.088	1.00	42.63
ATOM	7596	C	LEU	1064	-11.178	-2.753	24.140	1.00	2.88
ATOM	7597	O	LEU	1064	-11.293	-1.624	24.630	1.00	22.18
ATOM	7598	N	GLU	1065	-11.193	-3.860	24.879	1.00	40.30
ATOM	7599	CA	GLU	1065	-11.404	-3.792	26.319	1.00	39.77
ATOM	7600	CB	GLU	1065	-12.724	-4.464	26.671	1.00	42.44
ATOM	7601	CG	GLU	1065	-13.037	-4.426	28.136	1.00	40.66
ATOM	7602	CD	GLU	1065	-14.514	-4.320	28.410	1.00	52.43
ATOM	7603	OE1	GLU	1065	-14.883	-3.500	29.283	1.00	50.23
ATOM	7604	OE2	GLU	1065	-15.304	-5.047	27.762	1.00	60.03
ATOM	7605	C	GLU	1065	-10.271	-4.384	27.150	1.00	31.32
ATOM	7606	O	GLU	1065	-10.426	-5.452	27.740	1.00	25.45
ATOM	7607	N	ASP	1066	-9.183	-3.628	27.293	1.00	36.75
ATOM	7608	CA	ASP	1066	-8.010	-4.088	28.034	1.00	40.76
ATOM	7609	CB	ASP	1066	-6.866	-3.071	27.931	1.00	50.84
ATOM	7610	CG	ASP	1066	-5.685	-3.591	27.106	1.00	61.04
ATOM	7611	OD1	ASP	1066	-4.988	-2.759	26.481	1.00	64.38
ATOM	7612	OD2	ASP	1066	-5.453	-4.824	27.094	1.00	57.10
ATOM	7613	C	ASP	1066	-8.201	-4.546	29.479	1.00	40.68
ATOM	7614	O	ASP	1066	-7.824	-5.666	29.797	1.00	44.70
ATOM	7615	N	ARG	1067	-8.768	-3.695	30.337	1.00	19.16
ATOM	7616	CA	ARG	1067	-9.013	-4.013	31.766	1.00	22.99
ATOM	7617	CB	ARG	1067	-9.416	-5.489	31.931	1.00	47.97
ATOM	7618	CG	ARG	1067	-8.758	-6.242	33.047	1.00	55.66
ATOM	7619	CD	ARG	1067	-8.011	-7.439	32.508	1.00	74.53
ATOM	7620	NE	ARG	1067	-6.914	-7.036	31.631	1.00	91.40
ATOM	7621	CZ	ARG	1067	-5.794	-6.436	32.037	1.00	91.40
ATOM	7622	NH1	ARG	1067	-5.599	-6.161	33.324	1.00	91.40
ATOM	7623	NH2	ARG	1067	-4.875	-6.073	31.148	1.00	91.40
ATOM	7624	C	ARG	1067	-7.916	-3.582	32.777	1.00	20.54
ATOM	7625	O	ARG	1067	-6.745	-3.948	32.640	1.00	34.49
ATOM	7626	N	PRO	1068	-8.294	-2.779	33.805	1.00	47.25
ATOM	7627	CD	PRO	1068	-9.668	-2.369	34.157	1.00	17.38
ATOM	7628	CA	PRO	1068	-7.370	-2.284	34.827	1.00	47.17
ATOM	7629	CB	PRO	1068	-8.316	-1.859	35.955	1.00	6.42
ATOM	7630	CG	PRO	1068	-9.444	-1.293	35.241	1.00	2.00
ATOM	7631	C	PRO	1068	-6.379	-3.315	35.313	1.00	48.42
ATOM	7632	O	PRO	1068	-6.716	-4.465	35.447	1.00	2.37
ATOM	7633	N	LEU	1069	-5.125	-2.918	35.461	1.00	18.57

ATOM	7634	CA	LEU	1069	-4.123	-3.821	35.980	1.00	22.16
ATOM	7635	CB	LEU	1069	-2.727	-3.454	35.464	1.00	65.12
ATOM	7636	CG	LEU	1069	-2.118	-4.500	34.524	1.00	86.11
ATOM	7637	CD1	LEU	1069	-2.720	-4.346	33.139	1.00	95.53
ATOM	7638	CD2	LEU	1069	-0.603	-4.366	34.466	1.00	91.30
ATOM	7639	C	LEU	1069	-4.234	-3.606	37.481	1.00	23.87
ATOM	7640	O	LEU	1069	-3.647	-2.675	38.026	1.00	62.36
ATOM	7641	N	SER	1070	-5.021	-4.456	38.134	1.00	85.40
ATOM	7642	CA	SER	1070	-5.258	-4.347	39.569	1.00	99.44
ATOM	7643	CB	SER	1070	-6.097	-5.523	40.083	1.00	60.54
ATOM	7644	OG	SER	1070	-6.826	-5.156	41.249	1.00	51.51
ATOM	7645	C	SER	1070	-4.009	-4.166	40.421	1.00	100.00
ATOM	7646	O	SER	1070	-3.272	-5.117	40.690	1.00	74.26
ATOM	7647	N	ASP	1071	-3.770	-2.905	40.781	1.00	100.00
ATOM	7648	CA	ASP	1071	-2.661	-2.475	41.627	1.00	100.00
ATOM	7649	CB	ASP	1071	-2.995	-2.779	43.094	1.00	100.00
ATOM	7650	CG	ASP	1071	-4.398	-2.310	43.485	1.00	100.00
ATOM	7651	OD1	ASP	1071	-5.116	-3.077	44.166	1.00	100.00
ATOM	7652	OD2	ASP	1071	-4.788	-1.183	43.098	1.00	99.57
ATOM	7653	C	ASP	1071	-1.268	-2.999	41.258	1.00	100.00
ATOM	7654	O	ASP	1071	-0.376	-3.077	42.111	1.00	98.95
ATOM	7655	N	LYS	1072	-1.077	-3.336	39.983	1.00	68.24
ATOM	7656	CA	LYS	1072	0.212	-3.832	39.518	1.00	70.08
ATOM	7657	CB	LYS	1072	0.066	-5.228	38.892	1.00	71.07
ATOM	7658	CG	LYS	1072	-1.133	-5.423	37.956	1.00	72.81
ATOM	7659	CD	LYS	1072	-1.289	-6.892	37.532	1.00	72.81
ATOM	7660	CE	LYS	1072	-1.544	-7.788	38.748	1.00	72.05
ATOM	7661	NZ	LYS	1072	-1.398	-9.244	38.475	1.00	72.81
ATOM	7662	C	LYS	1072	0.894	-2.845	38.563	1.00	68.29
ATOM	7663	O	LYS	1072	0.614	-2.832	37.362	1.00	63.09
ATOM	7664	N	GLY	1073	1.790	-2.022	39.121	1.00	42.41
ATOM	7665	CA	GLY	1073	2.513	-1.019	38.351	1.00	33.64
ATOM	7666	C	GLY	1073	3.701	-1.488	37.530	1.00	37.93
ATOM	7667	O	GLY	1073	3.963	-0.928	36.463	1.00	67.81
ATOM	7668	N	SER	1074	4.425	-2.498	38.015	1.00	100.00
ATOM	7669	CA	SER	1074	5.590	-3.027	37.300	1.00	100.00
ATOM	7670	CB	SER	1074	6.338	-4.037	38.165	1.00	86.35
ATOM	7671	OG	SER	1074	6.897	-3.396	39.295	1.00	77.59
ATOM	7672	C	SER	1074	5.238	-3.651	35.949	1.00	100.00
ATOM	7673	O	SER	1074	6.090	-3.729	35.060	1.00	89.61
ATOM	7674	N	GLY	1075	3.988	-4.102	35.824	1.00	100.00
ATOM	7675	CA	GLY	1075	3.480	-4.698	34.597	1.00	100.00
ATOM	7676	C	GLY	1075	4.473	-5.441	33.725	1.00	100.00
ATOM	7677	O	GLY	1075	5.052	-4.852	32.802	1.00	74.99
ATOM	7678	N	ASP	1076	4.659	-6.729	34.023	1.00	100.00
ATOM	7679	CA	ASP	1076	5.572	-7.617	33.290	1.00	100.00
ATOM	7680	CB	ASP	1076	5.697	-8.960	34.037	1.00	100.00
ATOM	7681	CG	ASP	1076	6.698	-9.914	33.388	1.00	100.00
ATOM	7682	OD1	ASP	1076	7.914	-9.614	33.397	1.00	100.00
ATOM	7683	OD2	ASP	1076	6.267	-10.974	32.883	1.00	100.00
ATOM	7684	C	ASP	1076	5.072	-7.847	31.857	1.00	100.00
ATOM	7685	O	ASP	1076	4.405	-8.848	31.574	1.00	100.00
ATOM	7686	N	SER	1077	5.402	-6.905	30.968	1.00	100.00
ATOM	7687	CA	SER	1077	4.998	-6.933	29.557	1.00	100.00
ATOM	7688	CB	SER	1077	5.691	-8.077	28.809	1.00	100.00
ATOM	7689	OG	SER	1077	5.527	-7.934	27.406	1.00	100.00
ATOM	7690	C	SER	1077	3.472	-7.014	29.394	1.00	100.00

ATOM	7691	O	SER	1077	2.960	-7.421	28.344	1.00	95.97
ATOM	7692	N	SER	1078	2.763	-6.624	30.455	1.00	100.00
ATOM	7693	CA	SER	1078	1.302	-6.609	30.490	1.00	100.00
ATOM	7694	CB	SER	1078	0.805	-6.886	31.914	1.00	89.86
ATOM	7695	OG	SER	1078	1.289	-8.128	32.400	1.00	89.86
ATOM	7696	C	SER	1078	0.824	-5.231	30.036	1.00	100.00
ATOM	7697	O	SER	1078	-0.343	-4.872	30.217	1.00	89.86
ATOM	7698	N	GLN	1079	1.743	-4.483	29.420	1.00	94.34
ATOM	7699	CA	GLN	1079	1.514	-3.130	28.912	1.00	86.92
ATOM	7700	CB	GLN	1079	0.848	-3.138	27.520	1.00	96.93
ATOM	7701	CG	GLN	1079	-0.151	-4.263	27.225	1.00	100.00
ATOM	7702	CD	GLN	1079	0.461	-5.407	26.416	1.00	100.00
ATOM	7703	OE1	GLN	1079	-0.252	-6.166	25.756	1.00	100.00
ATOM	7704	NE2	GLN	1079	1.786	-5.525	26.457	1.00	100.00
ATOM	7705	C	GLN	1079	0.786	-2.181	29.859	1.00	74.74
ATOM	7706	O	GLN	1079	0.403	-1.081	29.462	1.00	74.58
ATOM	7707	N	VAL	1080	0.666	-2.594	31.122	1.00	31.14
ATOM	7708	CA	VAL	1080	-0.001	-1.835	32.185	1.00	21.68
ATOM	7709	CB	VAL	1080	1.023	-1.050	33.067	1.00	52.41
ATOM	7710	CG1	VAL	1080	1.878	-0.113	32.213	1.00	51.29
ATOM	7711	CG2	VAL	1080	0.297	-0.273	34.170	1.00	41.01
ATOM	7712	C	VAL	1080	-1.178	-0.923	31.797	1.00	20.77
ATOM	7713	O	VAL	1080	-0.989	0.162	31.235	1.00	60.13
ATOM	7714	N	THR	1081	-2.392	-1.365	32.119	1.00	46.70
ATOM	7715	CA	THR	1081	-3.590	-0.586	31.827	1.00	43.31
ATOM	7716	CB	THR	1081	-4.725	-1.468	31.352	1.00	13.48
ATOM	7717	OG1	THR	1081	-4.362	-2.043	30.085	1.00	21.03
ATOM	7718	CG2	THR	1081	-6.005	-0.642	31.210	1.00	10.37
ATOM	7719	C	THR	1081	-4.025	0.184	33.061	1.00	40.68
ATOM	7720	O	THR	1081	-3.811	-0.273	34.181	1.00	11.72
ATOM	7721	N	GLN	1082	-4.652	1.338	32.847	1.00	16.89
ATOM	7722	CA	GLN	1082	-5.087	2.201	33.946	1.00	17.24
ATOM	7723	CB	GLN	1082	-4.072	3.343	34.105	1.00	36.31
ATOM	7724	CG	GLN	1082	-4.223	4.207	35.352	1.00	48.83
ATOM	7725	CD	GLN	1082	-2.891	4.747	35.857	1.00	53.61
ATOM	7726	OE1	GLN	1082	-2.721	5.000	37.053	1.00	48.55
ATOM	7727	NE2	GLN	1082	-1.933	4.910	34.944	1.00	58.19
ATOM	7728	C	GLN	1082	-6.492	2.758	33.722	1.00	15.59
ATOM	7729	O	GLN	1082	-7.099	3.342	34.629	1.00	19.26
ATOM	7730	N	VAL	1083	-6.980	2.577	32.497	1.00	41.48
ATOM	7731	CA	VAL	1083	-8.303	3.017	32.074	1.00	46.34
ATOM	7732	CB	VAL	1083	-8.206	4.315	31.241	1.00	46.21
ATOM	7733	CG1	VAL	1083	-9.570	4.763	30.793	1.00	37.88
ATOM	7734	CG2	VAL	1083	-7.565	5.415	32.061	1.00	49.37
ATOM	7735	C	VAL	1083	-8.869	1.854	31.243	1.00	54.65
ATOM	7736	O	VAL	1083	-8.481	1.642	30.087	1.00	52.12
ATOM	7737	N	SER	1084	-9.776	1.100	31.865	1.00	78.22
ATOM	7738	CA	SER	1084	-10.390	-0.090	31.271	1.00	81.88
ATOM	7739	CB	SER	1084	-11.533	-0.620	32.146	1.00	63.08
ATOM	7740	OG	SER	1084	-12.316	-1.567	31.436	1.00	56.75
ATOM	7741	C	SER	1084	-10.833	-0.071	29.824	1.00	81.84
ATOM	7742	O	SER	1084	-10.120	-0.586	28.959	1.00	72.51
ATOM	7743	N	PRO	1085	-11.997	0.541	29.533	1.00	40.95
ATOM	7744	CD	PRO	1085	-12.787	1.450	30.384	1.00	13.02
ATOM	7745	CA	PRO	1085	-12.487	0.578	28.148	1.00	36.36
ATOM	7746	CB	PRO	1085	-13.850	1.263	28.281	1.00	3.65
ATOM	7747	CG	PRO	1085	-14.139	1.288	29.792	1.00	4.40

ATOM	7748	C	PRO	1085	-11.562	1.370	27.220	1.00	39.10
ATOM	7749	O	PRO	1085	-11.870	2.497	26.837	1.00	39.21
ATOM	7750	N	GLN	1086	-10.427	0.775	26.867	1.00	5.81
ATOM	7751	CA	GLN	1086	-9.458	1.418	25.998	1.00	10.71
ATOM	7752	CB	GLN	1086	-8.283	0.470	25.775	1.00	82.05
ATOM	7753	CG	GLN	1086	-7.102	0.728	26.698	1.00	100.00
ATOM	7754	CD	GLN	1086	-6.306	1.992	26.331	1.00	100.00
ATOM	7755	OE1	GLN	1086	-5.340	2.348	27.018	1.00	100.00
ATOM	7756	NE2	GLN	1086	-6.698	2.661	25.243	1.00	99.58
ATOM	7757	C	GLN	1086	-9.958	1.987	24.644	1.00	8.04
ATOM	7758	O	GLN	1086	-9.434	3.001	24.180	1.00	72.89
ATOM	7759	N	ARG	1087	-10.977	1.367	24.037	1.00	24.97
ATOM	7760	CA	ARG	1087	-11.502	1.801	22.730	1.00	21.09
ATOM	7761	CB	ARG	1087	-10.555	1.325	21.622	1.00	21.21
ATOM	7762	CG	ARG	1087	-11.247	1.009	20.306	1.00	19.63
ATOM	7763	CD	ARG	1087	-10.297	0.492	19.221	1.00	35.10
ATOM	7764	NE	ARG	1087	-9.367	1.501	18.705	1.00	45.73
ATOM	7765	CZ	ARG	1087	-9.690	2.753	18.367	1.00	45.46
ATOM	7766	NH1	ARG	1087	-10.936	3.200	18.486	1.00	42.72
ATOM	7767	NH2	ARG	1087	-8.756	3.568	17.899	1.00	53.45
ATOM	7768	C	ARG	1087	-12.938	1.349	22.382	1.00	19.52
ATOM	7769	O	ARG	1087	-13.268	0.173	22.488	1.00	38.90
ATOM	7770	N	ILE	1088	-13.768	2.279	21.909	1.00	12.94
ATOM	7771	CA	ILE	1088	-15.150	1.980	21.516	1.00	16.42
ATOM	7772	CB	ILE	1088	-16.184	2.300	22.646	1.00	2.00
ATOM	7773	CG2	ILE	1088	-15.496	2.666	23.941	1.00	15.03
ATOM	7774	CG1	ILE	1088	-17.115	3.444	22.245	1.00	10.78
ATOM	7775	CD1	ILE	1088	-18.337	3.528	23.131	1.00	2.00
ATOM	7776	C	ILE	1088	-15.561	2.693	20.217	1.00	17.69
ATOM	7777	O	ILE	1088	-14.850	3.563	19.715	1.00	12.55
ATOM	7778	N	ALA	1089	-16.721	2.323	19.684	1.00	14.07
ATOM	7779	CA	ALA	1089	-17.210	2.912	18.445	1.00	17.22
ATOM	7780	CB	ALA	1089	-16.688	2.121	17.271	1.00	2.85
ATOM	7781	C	ALA	1089	-18.732	3.024	18.360	1.00	30.91
ATOM	7782	O	ALA	1089	-19.412	2.095	17.922	1.00	32.74
ATOM	7783	N	LEU	1090	-19.265	4.172	18.759	1.00	26.03
ATOM	7784	CA	LEU	1090	-20.701	4.393	18.702	1.00	25.38
ATOM	7785	CB	LEU	1090	-21.123	5.458	19.721	1.00	28.12
ATOM	7786	CG	LEU	1090	-20.832	6.929	19.403	1.00	30.53
ATOM	7787	CD1	LEU	1090	-21.402	7.832	20.484	1.00	18.47
ATOM	7788	CD2	LEU	1090	-19.348	7.145	19.269	1.00	40.71
ATOM	7789	C	LEU	1090	-21.108	4.821	17.289	1.00	25.50
ATOM	7790	O	LEU	1090	-20.282	5.318	16.514	1.00	31.21
ATOM	7791	N	ARG	1091	-22.376	4.605	16.954	1.00	22.50
ATOM	7792	CA	ARG	1091	-22.899	4.977	15.645	1.00	30.27
ATOM	7793	CB	ARG	1091	-23.104	3.729	14.781	1.00	37.14
ATOM	7794	CG	ARG	1091	-23.558	4.009	13.359	1.00	46.13
ATOM	7795	CD	ARG	1091	-23.387	2.780	12.467	1.00	54.94
ATOM	7796	NE	ARG	1091	-23.744	3.070	11.078	1.00	71.75
ATOM	7797	CZ	ARG	1091	-22.887	3.108	10.059	1.00	79.22
ATOM	7798	NH1	ARG	1091	-21.598	2.869	10.253	1.00	77.50
ATOM	7799	NH2	ARG	1091	-23.322	3.395	8.839	1.00	79.22
ATOM	7800	C	ARG	1091	-24.221	5.675	15.896	1.00	34.94
ATOM	7801	O	ARG	1091	-25.217	5.025	16.219	1.00	40.65
ATOM	7802	N	LEU	1092	-24.221	7.001	15.773	1.00	62.52
ATOM	7803	CA	LEU	1092	-25.422	7.800	16.022	1.00	62.28
ATOM	7804	CB	LEU	1092	-25.070	9.097	16.755	1.00	38.51

ATOM	7805	CG	LEU	1092	-24.379	8.997	18.115	1.00	47.94
ATOM	7806	CD1	LEU	1092	-24.197	10.392	18.689	1.00	47.64
ATOM	7807	CD2	LEU	1092	-25.192	8.124	19.065	1.00	51.39
ATOM	7808	C	LEU	1092	-26.260	8.150	14.807	1.00	64.61
ATOM	7809	O	LEU	1092	-25.778	8.165	13.678	1.00	38.98
ATOM	7810	N	ARG	1093	-27.525	8.458	15.070	1.00	60.97
ATOM	7811	CA	ARG	1093	-28.463	8.843	14.029	1.00	62.28
ATOM	7812	CB	ARG	1093	-29.571	7.787	13.893	1.00	74.39
ATOM	7813	CG	ARG	1093	-30.305	7.461	15.167	1.00	86.74
ATOM	7814	CD	ARG	1093	-31.329	6.359	14.940	1.00	98.42
ATOM	7815	NE	ARG	1093	-31.586	5.612	16.174	1.00	100.00
ATOM	7816	CZ	ARG	1093	-32.443	4.599	16.288	1.00	100.00
ATOM	7817	NH1	ARG	1093	-33.154	4.195	15.238	1.00	100.00
ATOM	7818	NH2	ARG	1093	-32.569	3.969	17.454	1.00	100.00
ATOM	7819	C	ARG	1093	-29.009	10.239	14.370	1.00	67.43
ATOM	7820	O	ARG	1093	-28.610	10.834	15.374	1.00	68.77
ATOM	7821	N	PRO	1094	-29.902	10.793	13.531	1.00	45.60
ATOM	7822	CD	PRO	1094	-30.525	10.226	12.324	1.00	48.57
ATOM	7823	CA	PRO	1094	-30.457	12.122	13.790	1.00	43.17
ATOM	7824	CB	PRO	1094	-31.537	12.264	12.711	1.00	49.53
ATOM	7825	CG	PRO	1094	-31.885	10.850	12.377	1.00	49.11
ATOM	7826	C	PRO	1094	-31.020	12.375	15.175	1.00	42.11
ATOM	7827	O	PRO	1094	-32.021	11.783	15.582	1.00	40.25
ATOM	7828	N	ASP	1095	-30.342	13.279	15.876	1.00	67.94
ATOM	7829	CA	ASP	1095	-30.708	13.720	17.214	1.00	73.30
ATOM	7830	CB	ASP	1095	-32.043	14.480	17.159	1.00	67.60
ATOM	7831	CG	ASP	1095	-32.067	15.562	16.073	1.00	70.64
ATOM	7832	OD1	ASP	1095	-32.368	15.234	14.906	1.00	66.24
ATOM	7833	OD2	ASP	1095	-31.795	16.742	16.381	1.00	67.00
ATOM	7834	C	ASP	1095	-30.752	12.618	18.276	1.00	73.90
ATOM	7835	O	ASP	1095	-31.348	12.803	19.338	1.00	70.13
ATOM	7836	N	ASP	1096	-30.098	11.489	18.007	1.00	52.62
ATOM	7837	CA	ASP	1096	-30.088	10.381	18.961	1.00	50.23
ATOM	7838	CB	ASP	1096	-30.316	9.039	18.261	1.00	37.80
ATOM	7839	CG	ASP	1096	-31.047	8.027	19.145	1.00	45.57
ATOM	7840	OD1	ASP	1096	-31.531	8.388	20.244	1.00	50.96
ATOM	7841	OD2	ASP	1096	-31.158	6.857	18.724	1.00	48.13
ATOM	7842	C	ASP	1096	-28.795	10.330	19.753	1.00	51.94
ATOM	7843	O	ASP	1096	-27.738	10.701	19.255	1.00	50.74
ATOM	7844	N	SER	1097	-28.900	9.864	20.992	1.00	37.30
ATOM	7845	CA	SER	1097	-27.765	9.760	21.894	1.00	26.38
ATOM	7846	CB	SER	1097	-28.084	10.451	23.216	1.00	36.35
ATOM	7847	OG	SER	1097	-29.280	9.948	23.774	1.00	34.60
ATOM	7848	C	SER	1097	-27.377	8.317	22.159	1.00	25.69
ATOM	7849	O	SER	1097	-27.892	7.404	21.512	1.00	34.42
ATOM	7850	N	LYS	1098	-26.492	8.118	23.135	1.00	19.13
ATOM	7851	CA	LYS	1098	-26.018	6.784	23.490	1.00	22.64
ATOM	7852	CB	LYS	1098	-25.158	6.213	22.351	1.00	37.62
ATOM	7853	CG	LYS	1098	-25.078	4.688	22.278	1.00	49.38
ATOM	7854	CD	LYS	1098	-26.296	4.045	21.582	1.00	55.85
ATOM	7855	CE	LYS	1098	-27.544	3.962	22.471	1.00	58.72
ATOM	7856	NZ	LYS	1098	-28.691	3.293	21.790	1.00	51.78
ATOM	7857	C	LYS	1098	-25.201	6.831	24.784	1.00	23.61
ATOM	7858	O	LYS	1098	-24.205	7.553	24.874	1.00	39.97
ATOM	7859	N	ASN	1099	-25.618	6.055	25.781	1.00	50.97
ATOM	7860	CA	ASN	1099	-24.916	6.008	27.061	1.00	51.74
ATOM	7861	CB	ASN	1099	-25.912	5.787	28.213	1.00	66.23

ATOM	7862	CG	ASN	1099	-26.455	4.357	28.271	1.00	79.98
ATOM	7863	OD1	ASN	1099	-26.895	3.802	27.260	1.00	84.76
ATOM	7864	ND2	ASN	1099	-26.423	3.758	29.461	1.00	85.54
ATOM	7865	C	ASN	1099	-23.836	4.920	27.099	1.00	49.48
ATOM	7866	O	ASN	1099	-23.979	3.865	26.482	1.00	52.92
ATOM	7867	N	PHE	1100	-22.736	5.213	27.784	1.00	30.43
ATOM	7868	CA	PHE	1100	-21.639	4.259	27.966	1.00	27.64
ATOM	7869	CB	PHE	1100	-20.792	4.062	26.694	1.00	37.70
ATOM	7870	CG	PHE	1100	-19.944	5.246	26.306	1.00	43.22
ATOM	7871	CD1	PHE	1100	-18.574	5.251	26.569	1.00	45.45
ATOM	7872	CD2	PHE	1100	-20.496	6.324	25.611	1.00	45.18
ATOM	7873	CE1	PHE	1100	-17.766	6.309	26.138	1.00	39.45
ATOM	7874	CE2	PHE	1100	-19.695	7.386	25.177	1.00	36.41
ATOM	7875	CZ	PHE	1100	-18.332	7.377	25.439	1.00	35.59
ATOM	7876	C	PHE	1100	-20.806	4.679	29.175	1.00	26.54
ATOM	7877	O	PHE	1100	-21.240	5.539	29.948	1.00	42.89
ATOM	7878	N	SER	1101	-19.661	4.042	29.396	1.00	20.77
ATOM	7879	CA	SER	1101	-18.854	4.407	30.553	1.00	13.07
ATOM	7880	CB	SER	1101	-19.411	3.781	31.840	1.00	27.86
ATOM	7881	OG	SER	1101	-19.252	2.377	31.854	1.00	41.67
ATOM	7882	C	SER	1101	-17.376	4.094	30.421	1.00	11.20
ATOM	7883	O	SER	1101	-16.942	3.375	29.503	1.00	11.31
ATOM	7884	N	ILE	1102	-16.612	4.638	31.364	1.00	26.94
ATOM	7885	CA	ILE	1102	-15.174	4.469	31.385	1.00	19.34
ATOM	7886	CB	ILE	1102	-14.477	5.676	30.710	1.00	22.04
ATOM	7887	CG2	ILE	1102	-14.548	6.925	31.599	1.00	18.00
ATOM	7888	CG1	ILE	1102	-13.035	5.315	30.363	1.00	17.75
ATOM	7889	CD1	ILE	1102	-12.304	6.389	29.632	1.00	32.99
ATOM	7890	C	ILE	1102	-14.695	4.314	32.818	1.00	23.40
ATOM	7891	O	ILE	1102	-15.125	5.050	33.714	1.00	19.05
ATOM	7892	N	GLN	1103	-13.858	3.307	33.044	1.00	26.94
ATOM	7893	CA	GLN	1103	-13.337	3.060	34.380	1.00	28.73
ATOM	7894	CB	GLN	1103	-13.499	1.584	34.779	1.00	44.78
ATOM	7895	CG	GLN	1103	-14.936	1.106	34.983	1.00	50.90
ATOM	7896	CD	GLN	1103	-15.680	0.894	33.675	1.00	65.68
ATOM	7897	OE1	GLN	1103	-16.735	1.486	33.440	1.00	63.50
ATOM	7898	NE2	GLN	1103	-15.130	0.042	32.814	1.00	70.71
ATOM	7899	C	GLN	1103	-11.875	3.422	34.365	1.00	30.83
ATOM	7900	O	GLN	1103	-11.188	3.154	33.378	1.00	33.83
ATOM	7901	N	VAL	1104	-11.402	4.027	35.452	1.00	21.02
ATOM	7902	CA	VAL	1104	-9.993	4.428	35.560	1.00	18.41
ATOM	7903	CB	VAL	1104	-9.758	5.861	35.000	1.00	29.59
ATOM	7904	CG1	VAL	1104	-10.917	6.782	35.373	1.00	20.70
ATOM	7905	CG2	VAL	1104	-8.444	6.421	35.526	1.00	23.67
ATOM	7906	C	VAL	1104	-9.455	4.336	36.986	1.00	16.48
ATOM	7907	O	VAL	1104	-10.026	4.927	37.905	1.00	23.77
ATOM	7908	N	ARG	1105	-8.346	3.616	37.168	1.00	14.21
ATOM	7909	CA	ARG	1105	-7.791	3.471	38.510	1.00	26.55
ATOM	7910	CB	ARG	1105	-7.906	2.028	39.024	1.00	33.81
ATOM	7911	CG	ARG	1105	-6.752	1.086	38.666	1.00	44.92
ATOM	7912	CD	ARG	1105	-6.612	-0.050	39.703	1.00	47.70
ATOM	7913	NE	ARG	1105	-7.875	-0.757	39.932	1.00	49.75
ATOM	7914	CZ	ARG	1105	-8.217	-1.919	39.377	1.00	46.05
ATOM	7915	NH1	ARG	1105	-7.390	-2.546	38.553	1.00	38.67
ATOM	7916	NH2	ARG	1105	-9.425	-2.417	39.591	1.00	47.08
ATOM	7917	C	ARG	1105	-6.366	3.944	38.694	1.00	31.32
ATOM	7918	O	ARG	1105	-5.557	3.883	37.770	1.00	30.47

ATOM	7919	N	GLN	1106	-6.079	4.395	39.916	1.00	37.64
ATOM	7920	CA	GLN	1106	-4.759	4.865	40.310	1.00	35.70
ATOM	7921	CB	GLN	1106	-4.863	5.755	41.554	1.00	45.83
ATOM	7922	CG	GLN	1106	-5.412	7.151	41.286	1.00	46.85
ATOM	7923	CD	GLN	1106	-4.482	7.996	40.424	1.00	51.76
ATOM	7924	OE1	GLN	1106	-3.344	7.608	40.150	1.00	55.95
ATOM	7925	NE2	GLN	1106	-4.964	9.160	39.996	1.00	53.45
ATOM	7926	C	GLN	1106	-3.864	3.656	40.587	1.00	33.72
ATOM	7927	O	GLN	1106	-3.618	3.283	41.743	1.00	36.89
ATOM	7928	N	VAL	1107	-3.382	3.057	39.500	1.00	14.52
ATOM	7929	CA	VAL	1107	-2.521	1.881	39.539	1.00	12.14
ATOM	7930	CB	VAL	1107	-2.009	1.535	38.123	1.00	48.11
ATOM	7931	CG1	VAL	1107	-1.009	0.403	38.180	1.00	60.30
ATOM	7932	CG2	VAL	1107	-3.167	1.136	37.241	1.00	49.46
ATOM	7933	C	VAL	1107	-1.333	2.004	40.497	1.00	14.71
ATOM	7934	O	VAL	1107	-0.497	2.899	40.367	1.00	60.04
ATOM	7935	N	GLU	1108	-1.280	1.098	41.468	1.00	44.49
ATOM	7936	CA	GLU	1108	-0.206	1.057	42.453	1.00	54.18
ATOM	7937	CB	GLU	1108	-0.502	-0.039	43.472	1.00	45.12
ATOM	7938	CG	GLU	1108	-1.446	0.356	44.591	1.00	63.13
ATOM	7939	CD	GLU	1108	-0.708	0.775	45.855	1.00	72.36
ATOM	7940	OE1	GLU	1108	0.319	0.142	46.196	1.00	75.57
ATOM	7941	OE2	GLU	1108	-1.163	1.734	46.514	1.00	75.32
ATOM	7942	C	GLU	1108	1.151	0.767	41.808	1.00	50.87
ATOM	7943	O	GLU	1108	1.229	0.054	40.804	1.00	18.57
ATOM	7944	N	ASP	1109	2.211	1.352	42.366	1.00	53.16
ATOM	7945	CA	ASP	1109	3.563	1.109	41.871	1.00	61.69
ATOM	7946	CB	ASP	1109	3.833	-0.399	41.997	1.00	58.63
ATOM	7947	CG	ASP	1109	5.283	-0.757	41.836	1.00	66.56
ATOM	7948	OD1	ASP	1109	6.111	-0.234	42.609	1.00	75.29
ATOM	7949	OD2	ASP	1109	5.586	-1.584	40.949	1.00	67.62
ATOM	7950	C	ASP	1109	3.800	1.603	40.425	1.00	63.65
ATOM	7951	O	ASP	1109	4.430	0.911	39.626	1.00	64.78
ATOM	7952	N	TYR	1110	3.320	2.809	40.107	1.00	61.28
ATOM	7953	CA	TYR	1110	3.463	3.401	38.763	1.00	58.97
ATOM	7954	CB	TYR	1110	2.324	4.414	38.516	1.00	47.69
ATOM	7955	CG	TYR	1110	1.994	4.752	37.057	1.00	50.88
ATOM	7956	CD1	TYR	1110	2.373	3.916	36.007	1.00	46.93
ATOM	7957	CE1	TYR	1110	2.036	4.216	34.678	1.00	51.20
ATOM	7958	CD2	TYR	1110	1.264	5.903	36.739	1.00	52.56
ATOM	7959	CE2	TYR	1110	0.923	6.209	35.414	1.00	56.00
ATOM	7960	CZ	TYR	1110	1.309	5.358	34.394	1.00	57.58
ATOM	7961	OH	TYR	1110	0.952	5.633	33.096	1.00	66.29
ATOM	7962	C	TYR	1110	4.819	4.101	38.638	1.00	64.56
ATOM	7963	O	TYR	1110	5.119	5.004	39.414	1.00	59.99
ATOM	7964	N	PRO	1111	5.638	3.710	37.641	1.00	77.58
ATOM	7965	CD	PRO	1111	5.297	2.699	36.627	1.00	59.98
ATOM	7966	CA	PRO	1111	6.971	4.268	37.373	1.00	77.46
ATOM	7967	CB	PRO	1111	7.278	3.740	35.975	1.00	55.08
ATOM	7968	CG	PRO	1111	6.638	2.413	35.988	1.00	56.54
ATOM	7969	C	PRO	1111	6.974	5.788	37.379	1.00	80.82
ATOM	7970	O	PRO	1111	6.327	6.409	36.535	1.00	70.57
ATOM	7971	N	VAL	1112	7.698	6.388	38.322	1.00	31.74
ATOM	7972	CA	VAL	1112	7.735	7.846	38.400	1.00	23.09
ATOM	7973	CB	VAL	1112	7.819	8.345	39.857	1.00	19.68
ATOM	7974	CG1	VAL	1112	7.817	9.860	39.903	1.00	32.72
ATOM	7975	CG2	VAL	1112	6.644	7.821	40.648	1.00	30.10

ATOM	7976	C	VAL	1112	8.863	8.456	37.592	1.00	26.88
ATOM	7977	O	VAL	1112	9.820	7.783	37.223	1.00	32.61
ATOM	7978	N	ASP	1113	8.680	9.721	37.248	1.00	48.02
ATOM	7979	CA	ASP	1113	9.655	10.497	36.512	1.00	49.67
ATOM	7980	CB	ASP	1113	9.194	10.713	35.078	1.00	26.91
ATOM	7981	CG	ASP	1113	9.594	9.586	34.164	1.00	40.67
ATOM	7982	OD1	ASP	1113	10.325	8.680	34.617	1.00	52.64
ATOM	7983	OD2	ASP	1113	9.189	9.617	32.980	1.00	42.71
ATOM	7984	C	ASP	1113	9.738	11.828	37.234	1.00	52.64
ATOM	7985	O	ASP	1113	8.714	12.455	37.521	1.00	32.19
ATOM	7986	N	ILE	1114	10.953	12.244	37.562	1.00	45.63
ATOM	7987	CA	ILE	1114	11.139	13.498	38.266	1.00	36.47
ATOM	7988	CB	ILE	1114	11.334	13.241	39.778	1.00	21.70
ATOM	7989	CG2	ILE	1114	12.213	14.314	40.415	1.00	17.51
ATOM	7990	CG1	ILE	1114	9.966	13.149	40.455	1.00	24.84
ATOM	7991	CD1	ILE	1114	10.010	13.130	41.964	1.00	20.11
ATOM	7992	C	ILE	1114	12.268	14.354	37.699	1.00	27.40
ATOM	7993	O	ILE	1114	13.419	13.913	37.621	1.00	20.78
ATOM	7994	N	TYR	1115	11.927	15.577	37.292	1.00	34.78
ATOM	7995	CA	TYR	1115	12.911	16.503	36.748	1.00	34.74
ATOM	7996	CB	TYR	1115	12.465	17.004	35.385	1.00	22.62
ATOM	7997	CG	TYR	1115	13.596	17.567	34.564	1.00	20.76
ATOM	7998	CD1	TYR	1115	14.603	16.734	34.067	1.00	28.58
ATOM	7999	CE1	TYR	1115	15.627	17.243	33.273	1.00	34.96
ATOM	8000	CD2	TYR	1115	13.643	18.926	34.248	1.00	29.29
ATOM	8001	CE2	TYR	1115	14.661	19.444	33.457	1.00	39.97
ATOM	8002	CZ	TYR	1115	15.643	18.597	32.969	1.00	37.40
ATOM	8003	OH	TYR	1115	16.618	19.104	32.156	1.00	33.87
ATOM	8004	C	TYR	1115	13.128	17.676	37.708	1.00	40.03
ATOM	8005	O	TYR	1115	12.177	18.194	38.305	1.00	36.18
ATOM	8006	N	TYR	1116	14.377	18.112	37.835	1.00	43.92
ATOM	8007	CA	TYR	1116	14.688	19.193	38.756	1.00	44.05
ATOM	8008	CB	TYR	1116	15.800	18.762	39.711	1.00	27.97
ATOM	8009	CG	TYR	1116	15.683	19.395	41.074	1.00	18.34
ATOM	8010	CD1	TYR	1116	14.731	18.945	41.983	1.00	15.67
ATOM	8011	CE1	TYR	1116	14.598	19.524	43.231	1.00	17.68
ATOM	8012	CD2	TYR	1116	16.507	20.449	41.449	1.00	16.54
ATOM	8013	CE2	TYR	1116	16.384	21.037	42.698	1.00	17.55
ATOM	8014	CZ	TYR	1116	15.423	20.567	43.584	1.00	20.79
ATOM	8015	OH	TYR	1116	15.280	21.144	44.820	1.00	29.53
ATOM	8016	C	TYR	1116	15.036	20.541	38.140	1.00	47.30
ATOM	8017	O	TYR	1116	16.204	20.843	37.903	1.00	38.49
ATOM	8018	N	LEU	1117	14.013	21.355	37.899	1.00	74.41
ATOM	8019	CA	LEU	1117	14.207	22.691	37.346	1.00	74.72
ATOM	8020	CB	LEU	1117	12.941	23.175	36.637	1.00	48.90
ATOM	8021	CG	LEU	1117	12.934	23.204	35.112	1.00	47.58
ATOM	8022	CD1	LEU	1117	11.713	23.980	34.626	1.00	59.84
ATOM	8023	CD2	LEU	1117	14.209	23.852	34.602	1.00	50.20
ATOM	8024	C	LEU	1117	14.487	23.623	38.509	1.00	74.63
ATOM	8025	O	LEU	1117	13.598	23.853	39.337	1.00	49.62
ATOM	8026	N	MET	1118	15.706	24.156	38.589	1.00	28.33
ATOM	8027	CA	MET	1118	16.014	25.060	39.691	1.00	29.35
ATOM	8028	CB	MET	1118	16.920	24.389	40.743	1.00	37.19
ATOM	8029	CG	MET	1118	18.374	24.125	40.350	1.00	41.20
ATOM	8030	SD	MET	1118	19.397	23.597	41.783	1.00	41.34
ATOM	8031	CE	MET	1118	18.505	24.423	43.186	1.00	26.73
ATOM	8032	C	MET	1118	16.538	26.438	39.320	1.00	33.17

ATOM	8033	O	MET	1118	17.217	26.613	38.300	1.00	34.17
ATOM	8034	N	ASP	1119	16.144	27.420	40.133	1.00	65.97
ATOM	8035	CA	ASP	1119	16.558	28.813	39.978	1.00	65.13
ATOM	8036	CB	ASP	1119	15.710	29.723	40.884	1.00	44.40
ATOM	8037	CG	ASP	1119	16.071	31.215	40.759	1.00	48.43
ATOM	8038	OD1	ASP	1119	15.582	32.013	41.591	1.00	48.18
ATOM	8039	OD2	ASP	1119	16.822	31.603	39.834	1.00	52.64
ATOM	8040	C	ASP	1119	18.025	28.893	40.386	1.00	65.97
ATOM	8041	O	ASP	1119	18.379	28.696	41.557	1.00	44.16
ATOM	8042	N	LEU	1120	18.879	29.172	39.411	1.00	66.97
ATOM	8043	CA	LEU	1120	20.302	29.265	39.678	1.00	69.79
ATOM	8044	CB	LEU	1120	21.086	28.527	38.599	1.00	49.91
ATOM	8045	CG	LEU	1120	22.096	27.535	39.167	1.00	45.05
ATOM	8046	CD1	LEU	1120	21.416	26.598	40.159	1.00	31.98
ATOM	8047	CD2	LEU	1120	22.741	26.760	38.035	1.00	45.08
ATOM	8048	C	LEU	1120	20.822	30.694	39.861	1.00	68.35
ATOM	8049	O	LEU	1120	21.980	30.992	39.554	1.00	57.89
ATOM	8050	N	SER	1121	19.956	31.584	40.338	1.00	49.17
ATOM	8051	CA	SER	1121	20.367	32.955	40.595	1.00	43.96
ATOM	8052	CB	SER	1121	19.152	33.868	40.856	1.00	37.30
ATOM	8053	OG	SER	1121	18.361	33.455	41.963	1.00	31.16
ATOM	8054	C	SER	1121	21.269	32.872	41.825	1.00	46.57
ATOM	8055	O	SER	1121	21.172	31.922	42.603	1.00	36.12
ATOM	8056	N	TYR	1122	22.146	33.850	41.998	1.00	73.86
ATOM	8057	CA	TYR	1122	23.071	33.862	43.129	1.00	72.47
ATOM	8058	CB	TYR	1122	23.858	35.197	43.097	1.00	60.76
ATOM	8059	CG	TYR	1122	25.049	35.262	44.047	1.00	60.72
ATOM	8060	CD1	TYR	1122	26.312	34.819	43.646	1.00	62.02
ATOM	8061	CE1	TYR	1122	27.380	34.794	44.541	1.00	68.30
ATOM	8062	CD2	TYR	1122	24.896	35.702	45.376	1.00	67.07
ATOM	8063	CE2	TYR	1122	25.957	35.669	46.275	1.00	77.27
ATOM	8064	CZ	TYR	1122	27.191	35.218	45.848	1.00	75.36
ATOM	8065	OH	TYR	1122	28.232	35.170	46.736	1.00	76.83
ATOM	8066	C	TYR	1122	22.548	33.573	44.602	1.00	70.68
ATOM	8067	O	TYR	1122	23.346	33.667	45.488	1.00	50.11
ATOM	8068	N	SER	1123	21.320	33.123	44.852	1.00	61.44
ATOM	8069	CA	SER	1123	20.852	32.962	46.199	1.00	71.29
ATOM	8070	CB	SER	1123	19.832	34.011	46.614	1.00	79.08
ATOM	8071	OG	SER	1123	20.042	35.123	45.742	1.00	92.53
ATOM	8072	C	SER	1123	20.226	31.641	46.411	1.00	73.62
ATOM	8073	O	SER	1123	19.732	31.364	47.518	1.00	78.88
ATOM	8074	N	MET	1124	20.199	30.940	45.274	1.00	80.72
ATOM	8075	CA	MET	1124	19.789	29.620	45.484	1.00	74.36
ATOM	8076	CB	MET	1124	18.703	29.238	44.455	1.00	42.89
ATOM	8077	CG	MET	1124	17.314	29.266	45.117	1.00	41.71
ATOM	8078	SD	MET	1124	16.283	28.362	44.072	1.00	38.41
ATOM	8079	CE	MET	1124	15.940	26.725	45.159	1.00	31.36
ATOM	8080	C	MET	1124	21.242	29.063	45.383	1.00	70.99
ATOM	8081	O	MET	1124	21.451	28.095	44.717	1.00	37.97
ATOM	8082	N	LYS	1125	22.228	29.674	46.087	1.00	50.94
ATOM	8083	CA	LYS	1125	23.673	29.215	46.110	1.00	64.04
ATOM	8084	CB	LYS	1125	24.632	30.442	46.210	1.00	84.88
ATOM	8085	CG	LYS	1125	26.003	30.152	46.922	1.00	93.43
ATOM	8086	CD	LYS	1125	26.758	31.349	47.466	1.00	100.00
ATOM	8087	CE	LYS	1125	26.065	31.955	48.680	1.00	100.00
ATOM	8088	NZ	LYS	1125	27.018	32.780	49.493	1.00	100.00
ATOM	8089	C	LYS	1125	23.986	28.291	47.296	1.00	64.38

ATOM	8090	O	LYS	1125	25.061	27.670	47.434	1.00	70.09
ATOM	8091	N	ASP	1126	23.026	28.340	48.189	1.00	68.12
ATOM	8092	CA	ASP	1126	23.014	27.678	49.467	1.00	69.56
ATOM	8093	CB	ASP	1126	22.427	28.720	50.381	1.00	66.52
ATOM	8094	CG	ASP	1126	21.067	29.253	49.897	1.00	68.96
ATOM	8095	OD1	ASP	1126	20.118	28.589	50.245	1.00	74.53
ATOM	8096	OD2	ASP	1126	21.081	30.276	49.170	1.00	68.18
ATOM	8097	C	ASP	1126	22.024	26.519	49.385	1.00	77.25
ATOM	8098	O	ASP	1126	21.894	25.727	50.298	1.00	81.93
ATOM	8099	N	ASP	1127	21.181	26.557	48.367	1.00	86.45
ATOM	8100	CA	ASP	1127	20.219	25.517	48.178	1.00	79.96
ATOM	8101	CB	ASP	1127	19.058	26.120	47.440	1.00	70.39
ATOM	8102	CG	ASP	1127	18.582	27.358	48.113	1.00	83.19
ATOM	8103	OD1	ASP	1127	18.709	28.459	47.611	1.00	82.92
ATOM	8104	OD2	ASP	1127	18.266	27.260	49.289	1.00	89.38
ATOM	8105	C	ASP	1127	20.938	24.555	47.327	1.00	73.55
ATOM	8106	O	ASP	1127	20.459	23.500	47.081	1.00	67.20
ATOM	8107	N	LEU	1128	22.180	24.828	47.032	1.00	24.03
ATOM	8108	CA	LEU	1128	22.943	23.998	46.167	1.00	19.10
ATOM	8109	CB	LEU	1128	23.691	24.949	45.285	1.00	40.70
ATOM	8110	CG	LEU	1128	24.400	24.187	44.222	1.00	45.62
ATOM	8111	CD1	LEU	1128	23.416	23.334	43.469	1.00	50.39
ATOM	8112	CD2	LEU	1128	25.000	25.242	43.379	1.00	53.32
ATOM	8113	C	LEU	1128	23.889	23.267	47.083	1.00	21.92
ATOM	8114	O	LEU	1128	24.612	22.368	46.650	1.00	46.47
ATOM	8115	N	TRP	1129	23.930	23.691	48.335	1.00	53.74
ATOM	8116	CA	TRP	1129	24.788	23.096	49.286	1.00	58.49
ATOM	8117	CB	TRP	1129	25.059	24.100	50.354	1.00	70.78
ATOM	8118	CG	TRP	1129	25.864	23.566	51.318	1.00	80.38
ATOM	8119	CD2	TRP	1129	27.212	23.102	51.155	1.00	85.66
ATOM	8120	CE2	TRP	1129	27.634	22.659	52.423	1.00	86.59
ATOM	8121	CE3	TRP	1129	28.101	23.018	50.067	1.00	87.93
ATOM	8122	CD1	TRP	1129	25.532	23.387	52.603	1.00	82.57
ATOM	8123	NE1	TRP	1129	26.587	22.844	53.285	1.00	85.34
ATOM	8124	CZ2	TRP	1129	28.914	22.145	52.651	1.00	86.64
ATOM	8125	CZ3	TRP	1129	29.378	22.503	50.296	1.00	90.71
ATOM	8126	CH2	TRP	1129	29.768	22.073	51.582	1.00	89.44
ATOM	8127	C	TRP	1129	23.980	21.905	49.784	1.00	60.47
ATOM	8128	O	TRP	1129	24.300	20.763	49.473	1.00	65.69
ATOM	8129	N	SER	1130	22.851	22.194	50.424	1.00	72.85
ATOM	8130	CA	SER	1130	21.987	21.161	50.964	1.00	67.22
ATOM	8131	CB	SER	1130	21.154	21.748	52.104	1.00	73.64
ATOM	8132	OG	SER	1130	20.468	22.923	51.697	1.00	62.46
ATOM	8133	C	SER	1130	21.103	20.494	49.918	1.00	71.46
ATOM	8134	O	SER	1130	19.963	20.141	50.204	1.00	91.80
ATOM	8135	N	ILE	1131	21.653	20.304	48.719	1.00	35.53
ATOM	8136	CA	ILE	1131	20.929	19.684	47.608	1.00	40.12
ATOM	8137	CB	ILE	1131	20.202	20.758	46.728	1.00	75.36
ATOM	8138	CG2	ILE	1131	19.798	20.207	45.360	1.00	61.89
ATOM	8139	CG1	ILE	1131	18.965	21.293	47.462	1.00	70.71
ATOM	8140	CD1	ILE	1131	18.087	22.223	46.605	1.00	83.00
ATOM	8141	C	ILE	1131	21.854	18.816	46.753	1.00	54.43
ATOM	8142	O	ILE	1131	21.395	17.983	45.968	1.00	100.00
ATOM	8143	N	GLN	1132	23.159	18.997	46.922	1.00	99.97
ATOM	8144	CA	GLN	1132	24.136	18.208	46.184	1.00	99.97
ATOM	8145	CB	GLN	1132	25.538	18.823	46.334	1.00	100.00
ATOM	8146	CG	GLN	1132	25.967	19.125	47.777	1.00	100.00

ATOM	8147	CD	GLN	1132	27.135	20.110	47.866	1.00100.00
ATOM	8148	OE1	GLN	1132	28.038	19.949	48.694	1.00100.00
ATOM	8149	NE2	GLN	1132	27.113	21.140	47.021	1.00100.00
ATOM	8150	C	GLN	1132	24.097	16.758	46.674	1.00 99.97
ATOM	8151	O	GLN	1132	24.427	15.829	45.937	1.00100.00
ATOM	8152	N	ASN	1133	23.607	16.587	47.900	1.00 70.42
ATOM	8153	CA	ASN	1133	23.485	15.287	48.552	1.00 64.95
ATOM	8154	CB	ASN	1133	23.542	15.486	50.066	1.00 60.62
ATOM	8155	CG	ASN	1133	24.155	14.308	50.786	1.00 64.78
ATOM	8156	OD1	ASN	1133	25.018	13.623	50.244	1.00 62.39
ATOM	8157	ND2	ASN	1133	23.722	14.073	52.021	1.00 69.84
ATOM	8158	C	ASN	1133	22.169	14.595	48.173	1.00 63.37
ATOM	8159	O	ASN	1133	22.084	13.362	48.138	1.00 58.67
ATOM	8160	N	LEU	1134	21.151	15.407	47.889	1.00 94.49
ATOM	8161	CA	LEU	1134	19.818	14.935	47.506	1.00 97.04
ATOM	8162	CB	LEU	1134	18.909	16.131	47.210	1.00 95.23
ATOM	8163	CG	LEU	1134	17.442	15.882	46.862	1.00 93.24
ATOM	8164	CD1	LEU	1134	16.731	15.201	48.027	1.00 92.90
ATOM	8165	CD2	LEU	1134	16.780	17.203	46.512	1.00 89.64
ATOM	8166	C	LEU	1134	19.855	14.009	46.303	1.00 96.71
ATOM	8167	O	LEU	1134	20.898	13.815	45.689	1.00 95.23
ATOM	8168	N	GLY	1135	18.699	13.474	45.939	1.00 56.56
ATOM	8169	CA	GLY	1135	18.643	12.559	44.818	1.00 58.85
ATOM	8170	C	GLY	1135	18.806	11.178	45.408	1.00 60.17
ATOM	8171	O	GLY	1135	17.920	10.327	45.294	1.00100.00
ATOM	8172	N	THR	1136	19.946	10.959	46.056	1.00 65.16
ATOM	8173	CA	THR	1136	20.218	9.689	46.709	1.00 61.28
ATOM	8174	CB	THR	1136	21.658	9.626	47.250	1.00 60.83
ATOM	8175	OG1	THR	1136	22.580	9.935	46.198	1.00 66.07
ATOM	8176	CG2	THR	1136	21.964	8.232	47.778	1.00 65.54
ATOM	8177	C	THR	1136	19.254	9.655	47.878	1.00 57.07
ATOM	8178	O	THR	1136	18.604	8.646	48.129	1.00 49.33
ATOM	8179	N	LYS	1137	19.133	10.801	48.543	1.00 69.45
ATOM	8180	CA	LYS	1137	18.243	10.962	49.688	1.00 75.04
ATOM	8181	CB	LYS	1137	18.498	12.315	50.363	1.00 92.22
ATOM	8182	CG	LYS	1137	19.957	12.584	50.703	1.00 91.03
ATOM	8183	CD	LYS	1137	20.130	13.862	51.526	1.00100.00
ATOM	8184	CE	LYS	1137	19.574	15.089	50.814	1.00100.00
ATOM	8185	NZ	LYS	1137	19.923	16.369	51.493	1.00100.00
ATOM	8186	C	LYS	1137	16.775	10.869	49.260	1.00 75.83
ATOM	8187	O	LYS	1137	15.896	10.540	50.061	1.00 90.18
ATOM	8188	N	LEU	1138	16.525	11.159	47.987	1.00 79.82
ATOM	8189	CA	LEU	1138	15.182	11.124	47.421	1.00 81.07
ATOM	8190	CB	LEU	1138	15.171	11.900	46.098	1.00 53.10
ATOM	8191	CG	LEU	1138	14.033	12.861	45.733	1.00 52.71
ATOM	8192	CD1	LEU	1138	14.270	13.382	44.323	1.00 52.08
ATOM	8193	CD2	LEU	1138	12.679	12.180	45.825	1.00 50.06
ATOM	8194	C	LEU	1138	14.725	9.682	47.172	1.00 84.55
ATOM	8195	O	LEU	1138	13.601	9.309	47.516	1.00 60.52
ATOM	8196	N	ALA	1139	15.617	8.884	46.586	1.00 64.40
ATOM	8197	CA	ALA	1139	15.355	7.485	46.244	1.00 65.41
ATOM	8198	CB	ALA	1139	16.611	6.850	45.681	1.00 93.59
ATOM	8199	C	ALA	1139	14.772	6.604	47.348	1.00 65.31
ATOM	8200	O	ALA	1139	13.843	5.845	47.096	1.00 95.54
ATOM	8201	N	THR	1140	15.310	6.698	48.560	1.00 82.27
ATOM	8202	CA	THR	1140	14.824	5.892	49.683	1.00 79.06
ATOM	8203	CB	THR	1140	15.702	6.087	50.943	1.00 92.11

ATOM	8204	OG1	THR	1140	15.638	7.452	51.377	1.00	94.83
ATOM	8205	CG2	THR	1140	17.149	5.718	50.644	1.00	96.14
ATOM	8206	C	THR	1140	13.360	6.175	50.045	1.00	74.04
ATOM	8207	O	THR	1140	12.718	5.376	50.729	1.00	83.13
ATOM	8208	N	GLN	1141	12.853	7.320	49.589	1.00	51.46
ATOM	8209	CA	GLN	1141	11.476	7.744	49.832	1.00	45.86
ATOM	8210	CB	GLN	1141	11.413	9.265	49.944	1.00	37.78
ATOM	8211	CG	GLN	1141	12.282	9.856	51.028	1.00	49.67
ATOM	8212	CD	GLN	1141	11.925	9.335	52.403	1.00	55.50
ATOM	8213	OE1	GLN	1141	12.556	8.397	52.900	1.00	54.67
ATOM	8214	NE2	GLN	1141	10.911	9.936	53.028	1.00	59.55
ATOM	8215	C	GLN	1141	10.568	7.305	48.687	1.00	46.79
ATOM	8216	O	GLN	1141	9.494	6.735	48.900	1.00	43.76
ATOM	8217	N	MET	1142	10.994	7.613	47.468	1.00	43.91
ATOM	8218	CA	MET	1142	10.230	7.258	46.286	1.00	48.86
ATOM	8219	CB	MET	1142	10.690	8.075	45.074	1.00	55.79
ATOM	8220	CG	MET	1142	10.361	9.565	45.155	1.00	45.78
ATOM	8221	SD	MET	1142	8.633	9.880	45.588	1.00	43.20
ATOM	8222	CE	MET	1142	7.796	9.368	44.071	1.00	34.14
ATOM	8223	C	MET	1142	10.311	5.770	45.992	1.00	49.38
ATOM	8224	O	MET	1142	9.524	5.253	45.200	1.00	55.75
ATOM	8225	N	ARG	1143	11.279	5.095	46.609	1.00	61.19
ATOM	8226	CA	ARG	1143	11.440	3.654	46.435	1.00	63.31
ATOM	8227	CB	ARG	1143	12.737	3.153	47.081	1.00	92.63
ATOM	8228	CG	ARG	1143	13.780	2.664	46.080	1.00	100.00
ATOM	8229	CD	ARG	1143	13.274	1.461	45.279	1.00	100.00
ATOM	8230	NE	ARG	1143	14.152	1.123	44.155	1.00	100.00
ATOM	8231	CZ	ARG	1143	13.868	0.218	43.217	1.00	100.00
ATOM	8232	NH1	ARG	1143	12.724	-0.456	43.257	1.00	100.00
ATOM	8233	NH2	ARG	1143	14.722	-0.003	42.226	1.00	100.00
ATOM	8234	C	ARG	1143	10.244	3.002	47.108	1.00	62.53
ATOM	8235	O	ARG	1143	9.683	2.028	46.598	1.00	79.79
ATOM	8236	N	LYS	1144	9.841	3.581	48.240	1.00	57.92
ATOM	8237	CA	LYS	1144	8.691	3.099	48.994	1.00	61.36
ATOM	8238	CB	LYS	1144	8.571	3.845	50.323	1.00	86.05
ATOM	8239	CG	LYS	1144	9.777	3.707	51.230	1.00	85.95
ATOM	8240	CD	LYS	1144	9.603	4.559	52.470	1.00	87.58
ATOM	8241	CE	LYS	1144	10.879	4.621	53.284	1.00	87.30
ATOM	8242	NZ	LYS	1144	10.719	5.539	54.442	1.00	89.29
ATOM	8243	C	LYS	1144	7.432	3.338	48.168	1.00	62.65
ATOM	8244	O	LYS	1144	6.347	2.882	48.526	1.00	94.33
ATOM	8245	N	LEU	1145	7.587	4.058	47.060	1.00	66.94
ATOM	8246	CA	LEU	1145	6.473	4.371	46.185	1.00	57.47
ATOM	8247	CB	LEU	1145	6.251	5.881	46.141	1.00	63.52
ATOM	8248	CG	LEU	1145	5.177	6.409	47.099	1.00	61.46
ATOM	8249	CD1	LEU	1145	5.445	5.975	48.522	1.00	51.19
ATOM	8250	CD2	LEU	1145	5.118	7.918	47.009	1.00	58.35
ATOM	8251	C	LEU	1145	6.566	3.802	44.775	1.00	55.03
ATOM	8252	O	LEU	1145	5.556	3.731	44.081	1.00	62.82
ATOM	8253	N	THR	1146	7.757	3.391	44.345	1.00	60.82
ATOM	8254	CA	THR	1146	7.921	2.824	43.002	1.00	68.86
ATOM	8255	CB	THR	1146	8.143	3.896	41.921	1.00	66.08
ATOM	8256	OG1	THR	1146	9.101	4.857	42.379	1.00	80.68
ATOM	8257	CG2	THR	1146	6.856	4.563	41.554	1.00	54.79
ATOM	8258	C	THR	1146	9.053	1.829	42.832	1.00	73.83
ATOM	8259	O	THR	1146	10.164	2.039	43.321	1.00	73.97
ATOM	8260	N	SER	1147	8.767	0.769	42.082	1.00	88.29

ATOM	8261	CA	SER	1147	9.754	-0.257	41.786	1.00	90.15
ATOM	8262	CB	SER	1147	9.079	-1.523	41.240	1.00	67.22
ATOM	8263	OG	SER	1147	8.422	-1.287	40.005	1.00	64.62
ATOM	8264	C	SER	1147	10.699	0.330	40.743	1.00	90.42
ATOM	8265	O	SER	1147	11.801	-0.175	40.534	1.00	69.55
ATOM	8266	N	ASN	1148	10.255	1.412	40.106	1.00	89.59
ATOM	8267	CA	ASN	1148	11.043	2.091	39.089	1.00	80.83
ATOM	8268	CB	ASN	1148	10.607	1.648	37.687	1.00	95.35
ATOM	8269	CG	ASN	1148	11.621	2.019	36.608	1.00	96.97
ATOM	8270	OD1	ASN	1148	12.305	3.040	36.697	1.00	90.38
ATOM	8271	ND2	ASN	1148	11.720	1.183	35.582	1.00	99.20
ATOM	8272	C	ASN	1148	10.903	3.607	39.225	1.00	71.00
ATOM	8273	O	ASN	1148	9.795	4.132	39.387	1.00	78.27
ATOM	8274	N	LEU	1149	12.044	4.295	39.168	1.00	63.85
ATOM	8275	CA	LEU	1149	12.099	5.752	39.263	1.00	62.76
ATOM	8276	CB	LEU	1149	12.114	6.226	40.726	1.00	58.16
ATOM	8277	CG	LEU	1149	12.468	7.705	40.980	1.00	46.93
ATOM	8278	CD1	LEU	1149	11.420	8.623	40.376	1.00	52.19
ATOM	8279	CD2	LEU	1149	12.613	7.975	42.465	1.00	44.44
ATOM	8280	C	LEU	1149	13.303	6.337	38.536	1.00	63.60
ATOM	8281	O	LEU	1149	14.442	5.887	38.702	1.00	58.77
ATOM	8282	N	ARG	1150	13.018	7.347	37.722	1.00	66.20
ATOM	8283	CA	ARG	1150	14.028	8.068	36.972	1.00	65.33
ATOM	8284	CB	ARG	1150	13.585	8.258	35.520	1.00	61.39
ATOM	8285	CG	ARG	1150	13.703	7.014	34.648	1.00	58.43
ATOM	8286	CD	ARG	1150	15.153	6.721	34.268	1.00	64.70
ATOM	8287	NE	ARG	1150	15.297	5.477	33.513	1.00	71.85
ATOM	8288	CZ	ARG	1150	14.822	5.280	32.287	1.00	75.49
ATOM	8289	NH1	ARG	1150	14.164	6.246	31.657	1.00	77.09
ATOM	8290	NH2	ARG	1150	14.993	4.108	31.692	1.00	72.08
ATOM	8291	C	ARG	1150	14.159	9.422	37.654	1.00	64.75
ATOM	8292	O	ARG	1150	13.184	9.942	38.211	1.00	56.83
ATOM	8293	N	ILE	1151	15.370	9.969	37.639	1.00	45.68
ATOM	8294	CA	ILE	1151	15.632	11.269	38.249	1.00	43.32
ATOM	8295	CB	ILE	1151	16.463	11.102	39.561	1.00	33.90
ATOM	8296	CG2	ILE	1151	17.949	11.423	39.341	1.00	38.98
ATOM	8297	CG1	ILE	1151	15.841	11.946	40.675	1.00	26.81
ATOM	8298	CD1	ILE	1151	16.484	11.743	42.033	1.00	21.24
ATOM	8299	C	ILE	1151	16.305	12.182	37.209	1.00	44.39
ATOM	8300	O	ILE	1151	16.964	11.692	36.289	1.00	34.26
ATOM	8301	N	GLY	1152	16.087	13.492	37.317	1.00	25.96
ATOM	8302	CA	GLY	1152	16.666	14.418	36.353	1.00	24.07
ATOM	8303	C	GLY	1152	16.968	15.802	36.898	1.00	28.70
ATOM	8304	O	GLY	1152	16.568	16.134	38.018	1.00	90.42
ATOM	8305	N	PHE	1153	17.652	16.624	36.100	1.00	37.56
ATOM	8306	CA	PHE	1153	18.025	17.972	36.527	1.00	30.44
ATOM	8307	CB	PHE	1153	19.332	17.903	37.318	1.00	39.19
ATOM	8308	CG	PHE	1153	19.692	19.175	38.029	1.00	37.67
ATOM	8309	CD1	PHE	1153	19.192	19.442	39.301	1.00	41.04
ATOM	8310	CD2	PHE	1153	20.566	20.092	37.447	1.00	41.33
ATOM	8311	CE1	PHE	1153	19.563	20.604	39.991	1.00	43.14
ATOM	8312	CE2	PHE	1153	20.942	21.253	38.124	1.00	34.79
ATOM	8313	CZ	PHE	1153	20.439	21.509	39.400	1.00	36.50
ATOM	8314	C	PHE	1153	18.184	18.927	35.348	1.00	26.61
ATOM	8315	O	PHE	1153	18.381	18.503	34.207	1.00	35.98
ATOM	8316	N	GLY	1154	18.095	20.220	35.641	1.00	49.81
ATOM	8317	CA	GLY	1154	18.230	21.256	34.629	1.00	49.96

ATOM	8318	C	GLY	1154	17.988	22.599	35.284	1.00	48.54
ATOM	8319	O	GLY	1154	17.132	22.705	36.166	1.00	41.74
ATOM	8320	N	ALA	1155	18.715	23.633	34.872	1.00	53.96
ATOM	8321	CA	ALA	1155	18.516	24.932	35.504	1.00	50.55
ATOM	8322	CB	ALA	1155	19.555	25.157	36.567	1.00	11.41
ATOM	8323	C	ALA	1155	18.375	26.166	34.609	1.00	52.36
ATOM	8324	O	ALA	1155	18.846	26.205	33.459	1.00	2.00
ATOM	8325	N	PHE	1156	17.715	27.176	35.175	1.00	48.68
ATOM	8326	CA	PHE	1156	17.440	28.430	34.488	1.00	39.89
ATOM	8327	CB	PHE	1156	15.926	28.580	34.275	1.00	22.63
ATOM	8328	CG	PHE	1156	15.146	28.825	35.552	1.00	15.82
ATOM	8329	CD1	PHE	1156	14.807	30.118	35.939	1.00	19.74
ATOM	8330	CD2	PHE	1156	14.761	27.767	36.365	1.00	20.30
ATOM	8331	CE1	PHE	1156	14.104	30.355	37.116	1.00	16.76
ATOM	8332	CE2	PHE	1156	14.054	27.994	37.550	1.00	25.19
ATOM	8333	CZ	PHE	1156	13.727	29.291	37.923	1.00	14.11
ATOM	8334	C	PHE	1156	17.937	29.661	35.237	1.00	37.21
ATOM	8335	O	PHE	1156	18.277	29.600	36.421	1.00	22.97
ATOM	8336	N	VAL	1157	17.928	30.792	34.538	1.00	30.18
ATOM	8337	CA	VAL	1157	18.331	32.059	35.125	1.00	31.43
ATOM	8338	CB	VAL	1157	19.875	32.232	35.098	1.00	24.23
ATOM	8339	CG1	VAL	1157	20.397	32.577	33.687	1.00	29.72
ATOM	8340	CG2	VAL	1157	20.309	33.213	36.180	1.00	7.59
ATOM	8341	C	VAL	1157	17.516	33.194	34.456	1.00	29.16
ATOM	8342	O	VAL	1157	16.603	33.737	35.078	1.00	16.55
ATOM	8343	N	ASP	1158	17.801	33.522	33.198	1.00	2.00
ATOM	8344	CA	ASP	1158	17.038	34.533	32.459	1.00	2.00
ATOM	8345	CB	ASP	1158	16.893	35.859	33.203	1.00	4.60
ATOM	8346	CG	ASP	1158	15.590	36.590	32.851	1.00	14.96
ATOM	8347	OD1	ASP	1158	15.073	36.419	31.717	1.00	2.09
ATOM	8348	OD2	ASP	1158	15.084	37.329	33.730	1.00	13.62
ATOM	8349	C	ASP	1158	17.674	34.785	31.127	1.00	2.00
ATOM	8350	O	ASP	1158	18.829	34.453	30.910	1.00	2.00
ATOM	8351	N	LYS	1159	16.911	35.374	30.227	1.00	2.10
ATOM	8352	CA	LYS	1159	17.421	35.639	28.904	1.00	2.10
ATOM	8353	CB	LYS	1159	16.349	36.333	28.076	1.00	2.00
ATOM	8354	CG	LYS	1159	15.118	35.471	27.851	1.00	12.54
ATOM	8355	CD	LYS	1159	14.047	36.234	27.076	1.00	5.08
ATOM	8356	CE	LYS	1159	12.815	35.394	26.740	1.00	19.89
ATOM	8357	NZ	LYS	1159	13.074	34.336	25.731	1.00	43.90
ATOM	8358	C	LYS	1159	18.729	36.433	28.949	1.00	7.84
ATOM	8359	O	LYS	1159	18.775	37.570	29.420	1.00	20.08
ATOM	8360	N	PRO	1160	19.823	35.804	28.495	1.00	46.81
ATOM	8361	CD	PRO	1160	19.787	34.454	27.905	1.00	12.23
ATOM	8362	CA	PRO	1160	21.180	36.357	28.440	1.00	46.24
ATOM	8363	CB	PRO	1160	22.008	35.161	27.961	1.00	3.95
ATOM	8364	CG	PRO	1160	21.046	34.434	27.069	1.00	2.00
ATOM	8365	C	PRO	1160	21.295	37.540	27.472	1.00	49.47
ATOM	8366	O	PRO	1160	22.144	37.542	26.571	1.00	19.55
ATOM	8367	N	VAL	1161	20.446	38.546	27.665	1.00	9.36
ATOM	8368	CA	VAL	1161	20.465	39.711	26.799	1.00	8.63
ATOM	8369	CB	VAL	1161	19.378	39.616	25.685	1.00	20.67
ATOM	8370	CG1	VAL	1161	18.060	40.205	26.160	1.00	14.08
ATOM	8371	CG2	VAL	1161	19.847	40.303	24.411	1.00	17.12
ATOM	8372	C	VAL	1161	20.309	40.998	27.608	1.00	12.62
ATOM	8373	O	VAL	1161	19.754	41.005	28.707	1.00	13.18
ATOM	8374	N	SER	1162	20.804	42.077	27.016	1.00	62.07

ATOM	8375	CA	SER	1162	20.813	43.422	27.574	1.00	74.32
ATOM	8376	CB	SER	1162	20.511	44.444	26.465	1.00	87.30
ATOM	8377	OG	SER	1162	19.500	43.975	25.585	1.00	92.67
ATOM	8378	C	SER	1162	20.120	43.815	28.893	1.00	73.38
ATOM	8379	O	SER	1162	20.796	43.936	29.916	1.00	86.31
ATOM	8380	N	PRO	1163	18.774	43.952	28.912	1.00	18.75
ATOM	8381	CD	PRO	1163	17.804	43.650	27.848	1.00	20.82
ATOM	8382	CA	PRO	1163	18.059	44.348	30.141	1.00	10.63
ATOM	8383	CB	PRO	1163	16.598	44.395	29.700	1.00	16.05
ATOM	8384	CG	PRO	1163	16.687	44.581	28.205	1.00	26.96
ATOM	8385	C	PRO	1163	18.214	43.460	31.356	1.00	9.93
ATOM	8386	O	PRO	1163	18.510	43.943	32.440	1.00	27.17
ATOM	8387	N	TYR	1164	18.022	42.162	31.164	1.00	56.54
ATOM	8388	CA	TYR	1164	18.099	41.178	32.239	1.00	54.43
ATOM	8389	CB	TYR	1164	17.391	39.896	31.788	1.00	16.62
ATOM	8390	CG	TYR	1164	16.084	40.191	31.076	1.00	9.91
ATOM	8391	CD1	TYR	1164	15.923	39.920	29.705	1.00	2.51
ATOM	8392	CE1	TYR	1164	14.744	40.281	29.033	1.00	3.26
ATOM	8393	CD2	TYR	1164	15.024	40.805	31.760	1.00	11.91
ATOM	8394	CE2	TYR	1164	13.851	41.172	31.098	1.00	12.36
ATOM	8395	CZ	TYR	1164	13.712	40.904	29.741	1.00	12.48
ATOM	8396	OH	TYR	1164	12.556	41.306	29.105	1.00	25.36
ATOM	8397	C	TYR	1164	19.532	40.876	32.642	1.00	55.52
ATOM	8398	O	TYR	1164	19.873	40.893	33.827	1.00	25.23
ATOM	8399	N	MET	1165	20.362	40.630	31.633	1.00	32.57
ATOM	8400	CA	MET	1165	21.771	40.300	31.810	1.00	33.89
ATOM	8401	CB	MET	1165	22.314	39.651	30.534	1.00	32.57
ATOM	8402	CG	MET	1165	23.719	39.085	30.668	1.00	33.41
ATOM	8403	SD	MET	1165	24.166	38.065	29.271	1.00	36.39
ATOM	8404	CE	MET	1165	24.353	39.314	28.019	1.00	32.22
ATOM	8405	C	MET	1165	22.603	41.519	32.140	1.00	41.02
ATOM	8406	O	MET	1165	22.199	42.647	31.838	1.00	40.96
ATOM	8407	N	TYR	1166	23.765	41.290	32.757	1.00	57.33
ATOM	8408	CA	TYR	1166	24.655	42.385	33.099	1.00	56.87
ATOM	8409	CB	TYR	1166	25.719	41.977	34.120	1.00	45.77
ATOM	8410	CG	TYR	1166	25.375	42.534	35.493	1.00	41.72
ATOM	8411	CD1	TYR	1166	26.337	43.140	36.306	1.00	43.05
ATOM	8412	CE1	TYR	1166	25.972	43.769	37.514	1.00	39.74
ATOM	8413	CD2	TYR	1166	24.052	42.557	35.930	1.00	37.67
ATOM	8414	CE2	TYR	1166	23.689	43.177	37.122	1.00	26.69
ATOM	8415	CZ	TYR	1166	24.635	43.781	37.900	1.00	28.82
ATOM	8416	OH	TYR	1166	24.207	44.442	39.023	1.00	37.06
ATOM	8417	C	TYR	1166	25.231	43.020	31.852	1.00	52.28
ATOM	8418	O	TYR	1166	26.328	42.695	31.390	1.00	39.43
ATOM	8419	N	ILE	1167	24.350	43.831	31.268	1.00	76.95
ATOM	8420	CA	ILE	1167	24.506	44.634	30.059	1.00	76.64
ATOM	8421	CB	ILE	1167	24.211	46.119	30.383	1.00	43.86
ATOM	8422	CG2	ILE	1167	22.707	46.314	30.565	1.00	48.97
ATOM	8423	CG1	ILE	1167	24.929	46.542	31.672	1.00	47.06
ATOM	8424	CD1	ILE	1167	24.775	48.014	32.025	1.00	43.54
ATOM	8425	C	ILE	1167	25.760	44.537	29.208	1.00	68.16
ATOM	8426	O	ILE	1167	25.668	44.299	28.005	1.00	18.34
ATOM	8427	N	SER	1168	26.894	44.800	29.855	1.00	49.67
ATOM	8428	CA	SER	1168	28.255	44.801	29.313	1.00	57.91
ATOM	8429	CB	SER	1168	28.298	44.683	27.781	1.00	65.80
ATOM	8430	OG	SER	1168	29.631	44.733	27.288	1.00	76.29
ATOM	8431	C	SER	1168	28.955	46.093	29.741	1.00	64.15

ATOM	8432	O	SER	1168	29.503	46.813	28.893	1.00	73.08
ATOM	8433	N	PRO	1169	28.905	46.438	31.050	1.00	87.33
ATOM	8434	CD	PRO	1169	28.402	45.721	32.231	1.00	86.40
ATOM	8435	CA	PRO	1169	29.584	47.675	31.449	1.00	83.56
ATOM	8436	CB	PRO	1169	29.206	47.829	32.934	1.00	81.31
ATOM	8437	CG	PRO	1169	28.072	46.857	33.152	1.00	84.08
ATOM	8438	C	PRO	1169	31.049	47.315	31.200	1.00	80.53
ATOM	8439	O	PRO	1169	31.587	47.665	30.140	1.00	79.09
ATOM	8440	N	PRO	1170	31.720	46.612	32.140	1.00	42.72
ATOM	8441	CD	PRO	1170	31.539	46.202	33.551	1.00	36.58
ATOM	8442	CA	PRO	1170	33.090	46.339	31.709	1.00	45.07
ATOM	8443	CB	PRO	1170	33.820	46.152	33.032	1.00	46.90
ATOM	8444	CG	PRO	1170	32.809	45.438	33.846	1.00	46.96
ATOM	8445	C	PRO	1170	32.969	45.008	30.981	1.00	45.76
ATOM	8446	O	PRO	1170	32.013	44.264	31.231	1.00	36.72
ATOM	8447	N	GLU	1171	33.864	44.721	30.043	1.00	35.82
ATOM	8448	CA	GLU	1171	33.784	43.423	29.386	1.00	43.25
ATOM	8449	CB	GLU	1171	34.769	43.323	28.215	1.00	99.48
ATOM	8450	CG	GLU	1171	34.455	42.180	27.220	1.00	100.00
ATOM	8451	CD	GLU	1171	35.405	40.968	27.316	1.00	100.00
ATOM	8452	OE1	GLU	1171	35.691	40.494	28.441	1.00	100.00
ATOM	8453	OE2	GLU	1171	35.852	40.474	26.250	1.00	100.00
ATOM	8454	C	GLU	1171	34.115	42.378	30.475	1.00	43.27
ATOM	8455	O	GLU	1171	33.736	41.205	30.374	1.00	89.08
ATOM	8456	N	ALA	1172	34.764	42.845	31.545	1.00	83.44
ATOM	8457	CA	ALA	1172	35.151	42.012	32.683	1.00	81.09
ATOM	8458	CB	ALA	1172	36.018	42.823	33.649	1.00	61.39
ATOM	8459	C	ALA	1172	33.925	41.471	33.412	1.00	76.53
ATOM	8460	O	ALA	1172	34.024	40.994	34.542	1.00	63.17
ATOM	8461	N	LEU	1173	32.770	41.563	32.760	1.00	47.01
ATOM	8462	CA	LEU	1173	31.513	41.098	33.321	1.00	51.52
ATOM	8463	CB	LEU	1173	30.521	42.245	33.422	1.00	81.13
ATOM	8464	CG	LEU	1173	30.372	42.746	34.847	1.00	79.93
ATOM	8465	CD1	LEU	1173	29.255	43.759	34.882	1.00	82.84
ATOM	8466	CD2	LEU	1173	30.078	41.580	35.783	1.00	88.29
ATOM	8467	C	LEU	1173	30.884	39.967	32.531	1.00	52.08
ATOM	8468	O	LEU	1173	30.089	39.192	33.074	1.00	87.60
ATOM	8469	N	GLU	1174	31.245	39.864	31.255	1.00	47.62
ATOM	8470	CA	GLU	1174	30.712	38.815	30.392	1.00	45.92
ATOM	8471	CB	GLU	1174	31.272	38.953	28.978	1.00	87.61
ATOM	8472	CG	GLU	1174	31.274	40.377	28.451	1.00	93.78
ATOM	8473	CD	GLU	1174	29.954	41.084	28.668	1.00	100.00
ATOM	8474	OE1	GLU	1174	29.891	41.976	29.540	1.00	100.00
ATOM	8475	OE2	GLU	1174	28.979	40.743	27.970	1.00	100.00
ATOM	8476	C	GLU	1174	31.072	37.444	30.960	1.00	53.79
ATOM	8477	O	GLU	1174	30.599	36.411	30.473	1.00	100.00
ATOM	8478	N	ASN	1175	31.901	37.454	32.003	1.00	53.43
ATOM	8479	CA	ASN	1175	32.338	36.236	32.655	1.00	51.12
ATOM	8480	CB	ASN	1175	33.868	36.163	32.689	1.00	89.76
ATOM	8481	CG	ASN	1175	34.489	36.230	31.308	1.00	99.94
ATOM	8482	OD1	ASN	1175	35.139	35.281	30.860	1.00	100.00
ATOM	8483	ND2	ASN	1175	34.307	37.359	30.629	1.00	100.00
ATOM	8484	C	ASN	1175	31.781	36.080	34.064	1.00	52.08
ATOM	8485	O	ASN	1175	31.386	34.979	34.443	1.00	100.00
ATOM	8486	N	PRO	1176	31.760	37.162	34.868	1.00	45.23
ATOM	8487	CD	PRO	1176	32.811	38.186	34.946	1.00	30.34
ATOM	8488	CA	PRO	1176	31.220	36.939	36.214	1.00	42.97

ATOM	8489	CB	PRO	1176	32.504	36.825	37.033	1.00	19.32
ATOM	8490	CG	PRO	1176	33.377	37.962	36.383	1.00	28.35
ATOM	8491	C	PRO	1176	30.318	38.018	36.831	1.00	40.95
ATOM	8492	O	PRO	1176	29.400	38.546	36.208	1.00	4.59
ATOM	8493	N	CYS	1177	30.553	38.212	38.127	1.00	83.71
ATOM	8494	CA	CYS	1177	29.875	39.180	38.971	1.00	90.91
ATOM	8495	C	CYS	1177	30.994	39.755	39.842	1.00	93.12
ATOM	8496	O	CYS	1177	31.113	39.463	41.035	1.00	94.08
ATOM	8497	CB	CYS	1177	28.775	38.510	39.812	1.00	86.71
ATOM	8498	SG	CYS	1177	29.194	36.919	40.607	1.00	100.00
ATOM	8499	N	TYR	1178	31.838	40.539	39.175	1.00	87.41
ATOM	8500	CA	TYR	1178	33.014	41.214	39.724	1.00	85.57
ATOM	8501	CB	TYR	1178	33.652	42.048	38.612	1.00	62.30
ATOM	8502	CG	TYR	1178	32.802	43.220	38.155	1.00	70.13
ATOM	8503	CD1	TYR	1178	31.419	43.221	38.326	1.00	76.26
ATOM	8504	CE1	TYR	1178	30.633	44.299	37.923	1.00	80.51
ATOM	8505	CD2	TYR	1178	33.382	44.332	37.561	1.00	75.54
ATOM	8506	CE2	TYR	1178	32.603	45.422	37.149	1.00	77.34
ATOM	8507	CZ	TYR	1178	31.228	45.398	37.330	1.00	79.01
ATOM	8508	OH	TYR	1178	30.448	46.457	36.903	1.00	75.41
ATOM	8509	C	TYR	1178	32.857	42.109	40.959	1.00	85.34
ATOM	8510	O	TYR	1178	33.789	42.230	41.750	1.00	59.44
ATOM	8511	N	ASP	1179	31.717	42.787	41.075	1.00	62.31
ATOM	8512	CA	ASP	1179	31.446	43.699	42.186	1.00	59.67
ATOM	8513	CB	ASP	1179	29.971	44.113	42.202	1.00	72.51
ATOM	8514	CG	ASP	1179	29.602	45.008	41.028	1.00	79.05
ATOM	8515	OD1	ASP	1179	28.463	44.899	40.520	1.00	74.65
ATOM	8516	OD2	ASP	1179	30.449	45.826	40.612	1.00	89.48
ATOM	8517	C	ASP	1179	31.877	43.191	43.559	1.00	63.48
ATOM	8518	O	ASP	1179	32.784	43.757	44.169	1.00	74.01
ATOM	8519	N	MET	1180	31.250	42.126	44.046	1.00	90.97
ATOM	8520	CA	MET	1180	31.640	41.597	45.346	1.00	95.26
ATOM	8521	CB	MET	1180	30.515	40.767	45.967	1.00	100.00
ATOM	8522	CG	MET	1180	30.290	41.039	47.465	1.00	100.00
ATOM	8523	SD	MET	1180	31.738	40.795	48.544	1.00	100.00
ATOM	8524	CE	MET	1180	32.416	42.480	48.614	1.00	100.00
ATOM	8525	C	MET	1180	32.914	40.762	45.200	1.00	93.49
ATOM	8526	O	MET	1180	33.170	39.843	45.985	1.00	90.56
ATOM	8527	N	LYS	1181	33.703	41.107	44.182	1.00	100.00
ATOM	8528	CA	LYS	1181	34.971	40.452	43.865	1.00	100.00
ATOM	8529	CB	LYS	1181	35.993	40.660	44.993	1.00	95.92
ATOM	8530	CG	LYS	1181	36.667	42.045	45.005	1.00	100.00
ATOM	8531	CD	LYS	1181	35.724	43.174	45.430	1.00	100.00
ATOM	8532	CE	LYS	1181	36.387	44.549	45.309	1.00	100.00
ATOM	8533	NZ	LYS	1181	37.580	44.716	46.192	1.00	100.00
ATOM	8534	C	LYS	1181	34.850	38.975	43.497	1.00	99.73
ATOM	8535	O	LYS	1181	35.484	38.518	42.542	1.00	89.60
ATOM	8536	N	THR	1182	34.032	38.239	44.247	1.00	96.43
ATOM	8537	CA	THR	1182	33.812	36.818	43.995	1.00	100.00
ATOM	8538	CB	THR	1182	32.782	36.212	44.977	1.00	89.76
ATOM	8539	OG1	THR	1182	32.337	34.941	44.480	1.00	92.12
ATOM	8540	CG2	THR	1182	31.587	37.140	45.159	1.00	94.50
ATOM	8541	C	THR	1182	33.323	36.590	42.571	1.00	100.00
ATOM	8542	O	THR	1182	32.447	37.302	42.076	1.00	89.70
ATOM	8543	N	THR	1183	33.921	35.614	41.904	1.00	99.97
ATOM	8544	CA	THR	1183	33.530	35.304	40.542	1.00	99.97
ATOM	8545	CB	THR	1183	34.744	34.972	39.674	1.00	59.45

ATOM	8546	OG1	THR	1183	35.726	34.292	40.467	1.00	60.13
ATOM	8547	CG2	THR	1183	35.328	36.240	39.080	1.00	60.02
ATOM	8548	C	THR	1183	32.540	34.154	40.502	1.00	99.97
ATOM	8549	O	THR	1183	32.752	33.112	41.126	1.00	65.57
ATOM	8550	N	CYS	1184	31.431	34.380	39.806	1.00	68.83
ATOM	8551	CA	CYS	1184	30.397	33.374	39.658	1.00	69.07
ATOM	8552	C	CYS	1184	30.375	32.886	38.216	1.00	65.70
ATOM	8553	O	CYS	1184	31.396	32.425	37.704	1.00	70.73
ATOM	8554	CB	CYS	1184	29.030	33.921	40.090	1.00	71.68
ATOM	8555	SG	CYS	1184	28.515	35.491	39.318	1.00	67.68
ATOM	8556	N	LEU	1185	29.241	33.038	37.543	1.00	29.74
ATOM	8557	CA	LEU	1185	29.105	32.572	36.164	1.00	29.59
ATOM	8558	CB	LEU	1185	28.383	31.229	36.155	1.00	59.11
ATOM	8559	CG	LEU	1185	29.166	29.955	36.429	1.00	55.40
ATOM	8560	CD1	LEU	1185	28.195	28.833	36.732	1.00	46.88
ATOM	8561	CD2	LEU	1185	30.020	29.622	35.216	1.00	58.98
ATOM	8562	C	LEU	1185	28.323	33.527	35.281	1.00	32.09
ATOM	8563	O	LEU	1185	27.579	34.377	35.778	1.00	75.69
ATOM	8564	N	PRO	1186	28.489	33.408	33.953	1.00	44.58
ATOM	8565	CD	PRO	1186	29.422	32.527	33.234	1.00	28.72
ATOM	8566	CA	PRO	1186	27.772	34.276	33.015	1.00	48.50
ATOM	8567	CB	PRO	1186	28.522	34.050	31.706	1.00	28.55
ATOM	8568	CG	PRO	1186	28.910	32.613	31.816	1.00	26.81
ATOM	8569	C	PRO	1186	26.320	33.806	32.924	1.00	50.99
ATOM	8570	O	PRO	1186	25.988	32.719	33.395	1.00	31.25
ATOM	8571	N	MET	1187	25.459	34.627	32.334	1.00	55.24
ATOM	8572	CA	MET	1187	24.048	34.285	32.201	1.00	46.79
ATOM	8573	CB	MET	1187	23.267	35.505	31.728	1.00	39.34
ATOM	8574	CG	MET	1187	21.823	35.512	32.159	1.00	33.47
ATOM	8575	SD	MET	1187	21.663	36.015	33.859	1.00	41.81
ATOM	8576	CE	MET	1187	20.954	37.593	33.619	1.00	29.80
ATOM	8577	C	MET	1187	23.876	33.149	31.198	1.00	49.78
ATOM	8578	O	MET	1187	24.742	32.937	30.341	1.00	40.65
ATOM	8579	N	PHE	1188	22.752	32.439	31.289	1.00	96.77
ATOM	8580	CA	PHE	1188	22.495	31.328	30.379	1.00	94.94
ATOM	8581	CB	PHE	1188	23.125	30.034	30.923	1.00	39.79
ATOM	8582	CG	PHE	1188	22.734	29.698	32.340	1.00	34.47
ATOM	8583	CD1	PHE	1188	23.655	29.814	33.371	1.00	35.26
ATOM	8584	CD2	PHE	1188	21.465	29.227	32.638	1.00	32.91
ATOM	8585	CE1	PHE	1188	23.321	29.456	34.680	1.00	33.04
ATOM	8586	CE2	PHE	1188	21.124	28.869	33.942	1.00	36.67
ATOM	8587	CZ	PHE	1188	22.056	28.986	34.964	1.00	29.84
ATOM	8588	C	PHE	1188	21.034	31.088	29.977	1.00	97.20
ATOM	8589	O	PHE	1188	20.765	30.524	28.904	1.00	54.84
ATOM	8590	N	GLY	1189	20.096	31.529	30.813	1.00	43.81
ATOM	8591	CA	GLY	1189	18.692	31.321	30.503	1.00	47.15
ATOM	8592	C	GLY	1189	18.214	29.948	30.949	1.00	48.05
ATOM	8593	O	GLY	1189	17.559	29.829	31.993	1.00	15.86
ATOM	8594	N	TYR	1190	18.514	28.922	30.148	1.00	28.06
ATOM	8595	CA	TYR	1190	18.135	27.541	30.468	1.00	15.93
ATOM	8596	CB	TYR	1190	16.726	27.182	29.974	1.00	29.85
ATOM	8597	CG	TYR	1190	16.410	25.699	30.161	1.00	25.73
ATOM	8598	CD1	TYR	1190	16.585	25.085	31.407	1.00	26.33
ATOM	8599	CE1	TYR	1190	16.358	23.725	31.582	1.00	28.35
ATOM	8600	CD2	TYR	1190	15.991	24.903	29.085	1.00	29.99
ATOM	8601	CE2	TYR	1190	15.759	23.540	29.246	1.00	25.75
ATOM	8602	CZ	TYR	1190	15.946	22.953	30.504	1.00	33.27

ATOM	8603	OH	TYR	1190	15.715	21.600	30.700	1.00	43.72
ATOM	8604	C	TYR	1190	19.082	26.493	29.924	1.00	13.48
ATOM	8605	O	TYR	1190	19.148	26.250	28.709	1.00	13.13
ATOM	8606	N	LYS	1191	19.702	25.777	30.850	1.00	21.68
ATOM	8607	CA	LYS	1191	20.628	24.736	30.472	1.00	34.63
ATOM	8608	CB	LYS	1191	22.051	25.088	30.913	1.00	60.77
ATOM	8609	CG	LYS	1191	22.240	25.305	32.395	1.00	59.40
ATOM	8610	CD	LYS	1191	23.713	25.488	32.706	1.00	58.70
ATOM	8611	CE	LYS	1191	23.950	25.598	34.199	1.00	59.87
ATOM	8612	NZ	LYS	1191	25.399	25.569	34.526	1.00	54.22
ATOM	8613	C	LYS	1191	20.219	23.370	31.007	1.00	42.66
ATOM	8614	O	LYS	1191	19.768	23.244	32.159	1.00	61.28
ATOM	8615	N	HIS	1192	20.330	22.366	30.133	1.00	26.20
ATOM	8616	CA	HIS	1192	20.004	20.999	30.490	1.00	25.69
ATOM	8617	CB	HIS	1192	19.239	20.291	29.374	1.00	70.25
ATOM	8618	CG	HIS	1192	18.805	18.904	29.737	1.00	77.79
ATOM	8619	CD2	HIS	1192	18.404	17.860	28.965	1.00	75.23
ATOM	8620	ND1	HIS	1192	18.751	18.454	31.040	1.00	77.36
ATOM	8621	CE1	HIS	1192	18.338	17.199	31.055	1.00	77.64
ATOM	8622	NE2	HIS	1192	18.121	16.817	29.814	1.00	79.12
ATOM	8623	C	HIS	1192	21.264	20.212	30.801	1.00	28.95
ATOM	8624	O	HIS	1192	22.097	19.979	29.920	1.00	68.99
ATOM	8625	N	VAL	1193	21.406	19.833	32.068	1.00	65.20
ATOM	8626	CA	VAL	1193	22.538	19.039	32.531	1.00	66.99
ATOM	8627	CB	VAL	1193	23.430	19.834	33.535	1.00	41.24
ATOM	8628	CG1	VAL	1193	22.643	20.225	34.779	1.00	30.30
ATOM	8629	CG2	VAL	1193	24.665	19.028	33.906	1.00	40.15
ATOM	8630	C	VAL	1193	21.907	17.826	33.206	1.00	66.91
ATOM	8631	O	VAL	1193	20.974	17.983	33.996	1.00	48.32
ATOM	8632	N	LEU	1194	22.350	16.626	32.829	1.00	93.11
ATOM	8633	CA	LEU	1194	21.826	15.372	33.390	1.00	93.67
ATOM	8634	CB	LEU	1194	22.067	15.312	34.912	1.00	74.41
ATOM	8635	CG	LEU	1194	21.690	14.103	35.792	1.00	62.49
ATOM	8636	CD1	LEU	1194	20.253	14.177	36.270	1.00	54.21
ATOM	8637	CD2	LEU	1194	21.970	12.799	35.076	1.00	67.85
ATOM	8638	C	LEU	1194	20.347	15.135	33.073	1.00	91.77
ATOM	8639	O	LEU	1194	19.455	15.661	33.749	1.00	66.02
ATOM	8640	N	THR	1195	20.096	14.318	32.054	1.00	78.48
ATOM	8641	CA	THR	1195	18.734	13.985	31.645	1.00	76.86
ATOM	8642	CB	THR	1195	18.745	13.182	30.314	1.00	35.95
ATOM	8643	OG1	THR	1195	19.412	11.931	30.513	1.00	35.65
ATOM	8644	CG2	THR	1195	19.496	13.949	29.236	1.00	33.68
ATOM	8645	C	THR	1195	18.072	13.173	32.770	1.00	80.51
ATOM	8646	O	THR	1195	18.412	13.343	33.942	1.00	50.74
ATOM	8647	N	LEU	1196	17.092	12.340	32.430	1.00	47.26
ATOM	8648	CA	LEU	1196	16.428	11.500	33.428	1.00	45.41
ATOM	8649	CB	LEU	1196	14.942	11.341	33.098	1.00	26.10
ATOM	8650	CG	LEU	1196	13.971	12.482	33.423	1.00	20.43
ATOM	8651	CD1	LEU	1196	12.655	12.278	32.688	1.00	21.01
ATOM	8652	CD2	LEU	1196	13.724	12.564	34.917	1.00	7.10
ATOM	8653	C	LEU	1196	17.108	10.132	33.440	1.00	47.07
ATOM	8654	O	LEU	1196	16.992	9.379	32.474	1.00	32.76
ATOM	8655	N	THR	1197	17.826	9.816	34.517	1.00	66.56
ATOM	8656	CA	THR	1197	18.521	8.530	34.610	1.00	70.12
ATOM	8657	CB	THR	1197	20.049	8.706	34.420	1.00	80.32
ATOM	8658	OG1	THR	1197	20.657	7.432	34.157	1.00	78.11
ATOM	8659	CG2	THR	1197	20.676	9.325	35.666	1.00	73.76

ATOM	8660	C	THR	1197	18.241	7.796	35.926	1.00	73.83
ATOM	8661	O	THR	1197	17.527	8.310	36.788	1.00	79.64
ATOM	8662	N	ASP	1198	18.798	6.591	36.061	1.00	53.52
ATOM	8663	CA	ASP	1198	18.619	5.758	37.257	1.00	59.08
ATOM	8664	CB	ASP	1198	18.805	4.278	36.917	1.00	60.99
ATOM	8665	CG	ASP	1198	17.773	3.770	35.946	1.00	71.06
ATOM	8666	OD1	ASP	1198	16.658	3.440	36.402	1.00	71.06
ATOM	8667	OD2	ASP	1198	18.080	3.697	34.733	1.00	71.06
ATOM	8668	C	ASP	1198	19.546	6.101	38.419	1.00	58.82
ATOM	8669	O	ASP	1198	19.098	6.216	39.556	1.00	53.25
ATOM	8670	N	GLN	1199	20.840	6.229	38.140	1.00	73.06
ATOM	8671	CA	GLN	1199	21.818	6.535	39.178	1.00	72.81
ATOM	8672	CB	GLN	1199	23.219	6.697	38.585	1.00	82.33
ATOM	8673	CG	GLN	1199	23.803	5.448	37.962	1.00	83.31
ATOM	8674	CD	GLN	1199	23.144	5.096	36.656	1.00	81.64
ATOM	8675	OE1	GLN	1199	22.071	4.502	36.634	1.00	86.28
ATOM	8676	NE2	GLN	1199	23.777	5.472	35.553	1.00	79.43
ATOM	8677	C	GLN	1199	21.476	7.787	39.964	1.00	69.35
ATOM	8678	O	GLN	1199	21.766	8.895	39.518	1.00	69.28
ATOM	8679	N	VAL	1200	20.868	7.607	41.136	1.00	68.28
ATOM	8680	CA	VAL	1200	20.516	8.734	42.003	1.00	70.01
ATOM	8681	CB	VAL	1200	19.576	8.309	43.165	1.00	74.32
ATOM	8682	CG1	VAL	1200	18.228	7.872	42.616	1.00	70.14
ATOM	8683	CG2	VAL	1200	20.205	7.198	43.993	1.00	77.95
ATOM	8684	C	VAL	1200	21.793	9.356	42.573	1.00	69.01
ATOM	8685	O	VAL	1200	21.749	10.276	43.390	1.00	77.89
ATOM	8686	N	THR	1201	22.924	8.820	42.124	1.00	74.82
ATOM	8687	CA	THR	1201	24.250	9.264	42.518	1.00	75.10
ATOM	8688	CB	THR	1201	25.212	8.068	42.598	1.00	72.01
ATOM	8689	OG1	THR	1201	25.108	7.290	41.396	1.00	76.52
ATOM	8690	CG2	THR	1201	24.871	7.192	43.790	1.00	67.21
ATOM	8691	C	THR	1201	24.752	10.233	41.456	1.00	74.66
ATOM	8692	O	THR	1201	25.426	11.218	41.770	1.00	70.44
ATOM	8693	N	ARG	1202	24.428	9.925	40.198	1.00	55.70
ATOM	8694	CA	ARG	1202	24.809	10.743	39.045	1.00	51.13
ATOM	8695	CB	ARG	1202	24.274	10.109	37.762	1.00	60.52
ATOM	8696	CG	ARG	1202	25.259	9.215	37.046	1.00	65.26
ATOM	8697	CD	ARG	1202	26.383	10.033	36.422	1.00	75.05
ATOM	8698	NE	ARG	1202	25.897	11.090	35.529	1.00	86.76
ATOM	8699	CZ	ARG	1202	25.173	10.891	34.426	1.00	85.88
ATOM	8700	NH1	ARG	1202	24.824	9.662	34.052	1.00	84.90
ATOM	8701	NH2	ARG	1202	24.808	11.928	33.681	1.00	87.81
ATOM	8702	C	ARG	1202	24.228	12.140	39.208	1.00	47.15
ATOM	8703	O	ARG	1202	24.804	13.133	38.758	1.00	66.95
ATOM	8704	N	PHE	1203	23.059	12.180	39.839	1.00	52.90
ATOM	8705	CA	PHE	1203	22.348	13.410	40.139	1.00	51.36
ATOM	8706	CB	PHE	1203	21.017	13.072	40.826	1.00	45.63
ATOM	8707	CG	PHE	1203	20.179	14.265	41.170	1.00	46.51
ATOM	8708	CD1	PHE	1203	19.333	14.834	40.221	1.00	42.69
ATOM	8709	CD2	PHE	1203	20.223	14.814	42.444	1.00	47.84
ATOM	8710	CE1	PHE	1203	18.539	15.934	40.538	1.00	44.27
ATOM	8711	CE2	PHE	1203	19.433	15.915	42.772	1.00	53.12
ATOM	8712	CZ	PHE	1203	18.590	16.476	41.816	1.00	50.97
ATOM	8713	C	PHE	1203	23.256	14.192	41.088	1.00	50.69
ATOM	8714	O	PHE	1203	23.422	15.397	40.949	1.00	42.75
ATOM	8715	N	ASN	1204	23.890	13.482	42.015	1.00	55.92
ATOM	8716	CA	ASN	1204	24.793	14.104	42.976	1.00	55.06

ATOM	8717	CB	ASN	1204	25.047	13.141	44.136	1.00	44.62
ATOM	8718	CG	ASN	1204	23.775	12.789	44.873	1.00	47.56
ATOM	8719	OD1	ASN	1204	22.701	12.741	44.274	1.00	55.54
ATOM	8720	ND2	ASN	1204	23.878	12.571	46.178	1.00	47.99
ATOM	8721	C	ASN	1204	26.108	14.530	42.324	1.00	54.10
ATOM	8722	O	ASN	1204	26.744	15.498	42.749	1.00	38.77
ATOM	8723	N	GLU	1205	26.496	13.813	41.276	1.00	33.06
ATOM	8724	CA	GLU	1205	27.721	14.117	40.558	1.00	40.24
ATOM	8725	CB	GLU	1205	28.064	12.977	39.589	1.00	78.12
ATOM	8726	CG	GLU	1205	29.381	13.166	38.835	1.00	96.77
ATOM	8727	CD	GLU	1205	30.581	13.373	39.759	1.00	100.00
ATOM	8728	OE1	GLU	1205	30.636	12.730	40.832	1.00	100.00
ATOM	8729	OE2	GLU	1205	31.474	14.179	39.409	1.00	100.00
ATOM	8730	C	GLU	1205	27.584	15.441	39.805	1.00	42.83
ATOM	8731	O	GLU	1205	28.475	16.291	39.871	1.00	73.69
ATOM	8732	N	GLU	1206	26.455	15.616	39.115	1.00	63.85
ATOM	8733	CA	GLU	1206	26.178	16.830	38.341	1.00	61.76
ATOM	8734	CB	GLU	1206	25.012	16.607	37.380	1.00	55.43
ATOM	8735	CG	GLU	1206	25.210	15.461	36.410	1.00	69.23
ATOM	8736	CD	GLU	1206	26.442	15.623	35.546	1.00	80.47
ATOM	8737	OE1	GLU	1206	26.604	16.695	34.917	1.00	88.92
ATOM	8738	OE2	GLU	1206	27.247	14.668	35.498	1.00	84.06
ATOM	8739	C	GLU	1206	25.858	18.021	39.227	1.00	56.87
ATOM	8740	O	GLU	1206	26.332	19.121	38.966	1.00	44.08
ATOM	8741	N	VAL	1207	25.034	17.792	40.252	1.00	66.93
ATOM	8742	CA	VAL	1207	24.622	18.823	41.216	1.00	74.68
ATOM	8743	CB	VAL	1207	23.437	18.304	42.094	1.00	30.66
ATOM	8744	CG1	VAL	1207	23.134	19.228	43.259	1.00	23.79
ATOM	8745	CG2	VAL	1207	22.202	18.183	41.234	1.00	28.19
ATOM	8746	C	VAL	1207	25.808	19.303	42.071	1.00	80.04
ATOM	8747	O	VAL	1207	25.690	20.233	42.887	1.00	40.35
ATOM	8748	N	LYS	1208	26.958	18.668	41.850	1.00	55.15
ATOM	8749	CA	LYS	1208	28.201	19.005	42.534	1.00	56.11
ATOM	8750	CB	LYS	1208	29.012	17.731	42.775	1.00	84.84
ATOM	8751	CG	LYS	1208	30.129	17.867	43.787	1.00	99.66
ATOM	8752	CD	LYS	1208	29.600	17.877	45.212	1.00	100.00
ATOM	8753	CE	LYS	1208	30.746	17.952	46.226	1.00	100.00
ATOM	8754	NZ	LYS	1208	31.733	16.830	46.088	1.00	98.13
ATOM	8755	C	LYS	1208	28.941	19.928	41.563	1.00	51.21
ATOM	8756	O	LYS	1208	29.542	20.923	41.964	1.00	73.43
ATOM	8757	N	LYS	1209	28.825	19.607	40.276	1.00	47.27
ATOM	8758	CA	LYS	1209	29.440	20.364	39.183	1.00	52.00
ATOM	8759	CB	LYS	1209	29.493	19.499	37.914	1.00	86.84
ATOM	8760	CG	LYS	1209	30.255	18.183	38.048	1.00	99.40
ATOM	8761	CD	LYS	1209	30.212	17.386	36.739	1.00	100.00
ATOM	8762	CE	LYS	1209	31.012	16.085	36.830	1.00	94.14
ATOM	8763	NZ	LYS	1209	30.999	15.291	35.563	1.00	90.15
ATOM	8764	C	LYS	1209	28.700	21.677	38.853	1.00	53.73
ATOM	8765	O	LYS	1209	29.154	22.455	38.007	1.00	85.49
ATOM	8766	N	GLN	1210	27.554	21.908	39.495	1.00	73.80
ATOM	8767	CA	GLN	1210	26.764	23.116	39.251	1.00	76.49
ATOM	8768	CB	GLN	1210	25.264	22.861	39.467	1.00	42.28
ATOM	8769	CG	GLN	1210	24.604	21.930	38.443	1.00	46.11
ATOM	8770	CD	GLN	1210	24.864	22.333	36.988	1.00	43.23
ATOM	8771	OE1	GLN	1210	24.643	23.481	36.596	1.00	39.42
ATOM	8772	NE2	GLN	1210	25.338	21.378	36.183	1.00	43.36
ATOM	8773	C	GLN	1210	27.185	24.297	40.101	1.00	78.81

ATOM	8774	O	GLN	1210	27.331	24.180	41.314	1.00	50.26
ATOM	8775	N	SER	1211	27.378	25.434	39.442	1.00	89.99
ATOM	8776	CA	SER	1211	27.752	26.680	40.103	1.00	90.30
ATOM	8777	CB	SER	1211	29.122	27.168	39.615	1.00	88.29
ATOM	8778	OG	SER	1211	29.484	28.399	40.227	1.00	92.46
ATOM	8779	C	SER	1211	26.672	27.716	39.787	1.00	86.02
ATOM	8780	O	SER	1211	26.052	27.674	38.724	1.00	68.40
ATOM	8781	N	VAL	1212	26.460	28.645	40.712	1.00	42.12
ATOM	8782	CA	VAL	1212	25.445	29.684	40.566	1.00	35.93
ATOM	8783	CB	VAL	1212	24.974	30.127	41.980	1.00	21.50
ATOM	8784	CG1	VAL	1212	25.940	31.100	42.617	1.00	21.27
ATOM	8785	CG2	VAL	1212	23.591	30.652	41.938	1.00	23.80
ATOM	8786	C	VAL	1212	25.904	30.877	39.686	1.00	33.76
ATOM	8787	O	VAL	1212	27.101	31.055	39.443	1.00	28.50
ATOM	8788	N	SER	1213	24.950	31.657	39.176	1.00	25.00
ATOM	8789	CA	SER	1213	25.237	32.816	38.313	1.00	22.70
ATOM	8790	CB	SER	1213	24.544	32.628	36.954	1.00	20.65
ATOM	8791	OG	SER	1213	24.835	33.681	36.045	1.00	20.32
ATOM	8792	C	SER	1213	24.732	34.098	38.980	1.00	23.73
ATOM	8793	O	SER	1213	24.454	34.095	40.186	1.00	24.65
ATOM	8794	N	ARG	1214	24.615	35.183	38.201	1.00	14.70
ATOM	8795	CA	ARG	1214	24.115	36.477	38.709	1.00	15.84
ATOM	8796	CB	ARG	1214	25.263	37.314	39.287	1.00	59.45
ATOM	8797	CG	ARG	1214	24.814	38.502	40.138	1.00	55.77
ATOM	8798	CD	ARG	1214	25.283	39.829	39.545	1.00	67.14
ATOM	8799	NE	ARG	1214	24.892	40.979	40.361	1.00	72.42
ATOM	8800	CZ	ARG	1214	25.726	41.679	41.128	1.00	68.49
ATOM	8801	NH1	ARG	1214	27.014	41.352	41.191	1.00	72.33
ATOM	8802	NH2	ARG	1214	25.269	42.700	41.843	1.00	64.57
ATOM	8803	C	ARG	1214	23.351	37.300	37.661	1.00	17.73
ATOM	8804	O	ARG	1214	23.840	37.514	36.550	1.00	49.96
ATOM	8805	N	ASN	1215	22.155	37.760	38.030	1.00	53.52
ATOM	8806	CA	ASN	1215	21.318	38.567	37.136	1.00	58.61
ATOM	8807	CB	ASN	1215	20.057	37.793	36.711	1.00	53.16
ATOM	8808	CG	ASN	1215	19.059	37.601	37.845	1.00	58.92
ATOM	8809	OD1	ASN	1215	17.843	37.634	37.618	1.00	63.44
ATOM	8810	ND2	ASN	1215	19.561	37.388	39.065	1.00	53.04
ATOM	8811	C	ASN	1215	20.948	39.957	37.691	1.00	57.62
ATOM	8812	O	ASN	1215	20.816	40.163	38.910	1.00	45.01
ATOM	8813	N	ARG	1216	20.768	40.903	36.774	1.00	33.66
ATOM	8814	CA	ARG	1216	20.442	42.285	37.115	1.00	29.71
ATOM	8815	CB	ARG	1216	20.669	43.178	35.873	1.00	42.64
ATOM	8816	CG	ARG	1216	20.751	44.690	36.137	1.00	43.58
ATOM	8817	CD	ARG	1216	21.088	45.486	34.861	1.00	41.35
ATOM	8818	NE	ARG	1216	22.521	45.712	34.645	1.00	47.89
ATOM	8819	CZ	ARG	1216	23.251	46.626	35.288	1.00	58.22
ATOM	8820	NH1	ARG	1216	22.701	47.414	36.208	1.00	51.02
ATOM	8821	NH2	ARG	1216	24.532	46.782	34.984	1.00	49.54
ATOM	8822	C	ARG	1216	19.010	42.435	37.626	1.00	25.57
ATOM	8823	O	ARG	1216	18.780	42.865	38.760	1.00	32.57
ATOM	8824	N	ASP	1217	18.069	42.001	36.787	1.00	47.88
ATOM	8825	CA	ASP	1217	16.631	42.081	37.032	1.00	48.30
ATOM	8826	CB	ASP	1217	15.900	41.700	35.750	1.00	30.64
ATOM	8827	CG	ASP	1217	14.663	42.539	35.519	1.00	42.40
ATOM	8828	OD1	ASP	1217	14.197	42.605	34.359	1.00	41.03
ATOM	8829	OD2	ASP	1217	14.162	43.144	36.496	1.00	38.74
ATOM	8830	C	ASP	1217	16.050	41.271	38.190	1.00	53.89

ATOM	8831	O	ASP	1217	16.519	40.174	38.494	1.00	53.80
ATOM	8832	N	ALA	1218	14.991	41.797	38.804	1.00	30.97
ATOM	8833	CA	ALA	1218	14.331	41.093	39.908	1.00	29.45
ATOM	8834	CB	ALA	1218	13.227	41.982	40.542	1.00	2.00
ATOM	8835	C	ALA	1218	13.776	39.716	39.461	1.00	26.74
ATOM	8836	O	ALA	1218	14.187	38.686	39.989	1.00	2.00
ATOM	8837	N	PRO	1219	12.860	39.688	38.466	1.00	5.52
ATOM	8838	CD	PRO	1219	12.149	40.856	37.926	1.00	19.38
ATOM	8839	CA	PRO	1219	12.247	38.472	37.926	1.00	3.35
ATOM	8840	CB	PRO	1219	11.079	39.014	37.107	1.00	22.54
ATOM	8841	CG	PRO	1219	10.780	40.312	37.739	1.00	19.63
ATOM	8842	C	PRO	1219	13.161	37.682	37.009	1.00	6.61
ATOM	8843	O	PRO	1219	13.826	38.241	36.124	1.00	18.37
ATOM	8844	N	GLU	1220	13.153	36.369	37.205	1.00	19.92
ATOM	8845	CA	GLU	1220	13.958	35.475	36.394	1.00	28.46
ATOM	8846	CB	GLU	1220	14.408	34.250	37.207	1.00	37.94
ATOM	8847	CG	GLU	1220	15.681	34.453	38.051	1.00	50.89
ATOM	8848	CD	GLU	1220	15.405	34.725	39.521	1.00	66.68
ATOM	8849	OE1	GLU	1220	16.300	35.269	40.202	1.00	74.25
ATOM	8850	OE2	GLU	1220	14.305	34.381	40.006	1.00	71.01
ATOM	8851	C	GLU	1220	13.138	35.041	35.191	1.00	26.04
ATOM	8852	O	GLU	1220	11.934	35.295	35.134	1.00	30.31
ATOM	8853	N	GLY	1221	13.803	34.427	34.217	1.00	24.69
ATOM	8854	CA	GLY	1221	13.116	33.953	33.027	1.00	31.59
ATOM	8855	C	GLY	1221	13.077	32.441	33.010	1.00	33.63
ATOM	8856	O	GLY	1221	13.656	31.800	32.121	1.00	6.62
ATOM	8857	N	GLY	1222	12.401	31.886	34.017	1.00	50.60
ATOM	8858	CA	GLY	1222	12.286	30.448	34.172	1.00	48.27
ATOM	8859	C	GLY	1222	11.107	29.786	33.504	1.00	40.83
ATOM	8860	O	GLY	1222	10.999	28.561	33.535	1.00	3.00
ATOM	8861	N	PHE	1223	10.211	30.591	32.940	1.00	4.53
ATOM	8862	CA	PHE	1223	9.043	30.069	32.252	1.00	2.00
ATOM	8863	CB	PHE	1223	8.015	31.163	32.003	1.00	5.68
ATOM	8864	CG	PHE	1223	7.023	31.319	33.108	1.00	9.49
ATOM	8865	CD1	PHE	1223	7.210	30.673	34.327	1.00	10.89
ATOM	8866	CD2	PHE	1223	5.885	32.105	32.926	1.00	2.00
ATOM	8867	CE1	PHE	1223	6.279	30.805	35.355	1.00	11.59
ATOM	8868	CE2	PHE	1223	4.941	32.245	33.950	1.00	12.19
ATOM	8869	CZ	PHE	1223	5.139	31.593	35.169	1.00	5.97
ATOM	8870	C	PHE	1223	9.506	29.510	30.943	1.00	2.00
ATOM	8871	O	PHE	1223	8.892	28.605	30.393	1.00	22.88
ATOM	8872	N	ASP	1224	10.579	30.082	30.422	1.00	2.00
ATOM	8873	CA	ASP	1224	11.137	29.603	29.174	1.00	13.14
ATOM	8874	CB	ASP	1224	12.351	30.450	28.769	1.00	42.10
ATOM	8875	CG	ASP	1224	12.037	31.496	27.698	1.00	52.71
ATOM	8876	OD1	ASP	1224	12.932	32.325	27.458	1.00	52.36
ATOM	8877	OD2	ASP	1224	10.946	31.484	27.079	1.00	64.67
ATOM	8878	C	ASP	1224	11.581	28.168	29.443	1.00	13.61
ATOM	8879	O	ASP	1224	11.401	27.289	28.595	1.00	19.44
ATOM	8880	N	ALA	1225	12.122	27.948	30.647	1.00	24.27
ATOM	8881	CA	ALA	1225	12.604	26.636	31.081	1.00	20.54
ATOM	8882	CB	ALA	1225	13.401	26.752	32.357	1.00	13.92
ATOM	8883	C	ALA	1225	11.449	25.665	31.269	1.00	20.43
ATOM	8884	O	ALA	1225	11.503	24.542	30.757	1.00	19.28
ATOM	8885	N	ILE	1226	10.407	26.093	31.986	1.00	4.72
ATOM	8886	CA	ILE	1226	9.236	25.246	32.187	1.00	2.00
ATOM	8887	CB	ILE	1226	8.085	25.988	32.879	1.00	2.00

ATOM	8888	CG2	ILE	1226	6.814	25.216	32.767	1.00	2.00
ATOM	8889	CG1	ILE	1226	8.384	26.154	34.356	1.00	6.45
ATOM	8890	CD1	ILE	1226	7.237	26.751	35.133	1.00	19.79
ATOM	8891	C	ILE	1226	8.754	24.724	30.831	1.00	2.00
ATOM	8892	O	ILE	1226	8.288	23.588	30.726	1.00	18.50
ATOM	8893	N	MET	1227	8.912	25.532	29.788	1.00	2.00
ATOM	8894	CA	MET	1227	8.496	25.112	28.462	1.00	2.00
ATOM	8895	CB	MET	1227	8.285	26.320	27.550	1.00	2.00
ATOM	8896	CG	MET	1227	7.805	25.991	26.113	1.00	6.98
ATOM	8897	SD	MET	1227	6.143	25.262	26.008	1.00	33.17
ATOM	8898	CE	MET	1227	5.096	26.540	26.632	1.00	27.66
ATOM	8899	C	MET	1227	9.471	24.122	27.815	1.00	6.72
ATOM	8900	O	MET	1227	9.088	23.000	27.494	1.00	21.76
ATOM	8901	N	GLN	1228	10.722	24.525	27.621	1.00	25.52
ATOM	8902	CA	GLN	1228	11.690	23.634	26.992	1.00	27.60
ATOM	8903	CB	GLN	1228	13.083	24.259	26.957	1.00	5.58
ATOM	8904	CG	GLN	1228	13.144	25.529	26.146	1.00	13.03
ATOM	8905	CD	GLN	1228	12.418	25.416	24.816	1.00	20.36
ATOM	8906	OE1	GLN	1228	12.903	24.770	23.893	1.00	14.69
ATOM	8907	NE2	GLN	1228	11.250	26.059	24.711	1.00	27.52
ATOM	8908	C	GLN	1228	11.734	22.302	27.708	1.00	29.68
ATOM	8909	O	GLN	1228	11.808	21.244	27.069	1.00	8.19
ATOM	8910	N	ALA	1229	11.612	22.363	29.033	1.00	34.48
ATOM	8911	CA	ALA	1229	11.636	21.167	29.864	1.00	32.63
ATOM	8912	CB	ALA	1229	12.066	21.516	31.288	1.00	32.63
ATOM	8913	C	ALA	1229	10.290	20.444	29.871	1.00	28.56
ATOM	8914	O	ALA	1229	9.925	19.800	30.857	1.00	33.66
ATOM	8915	N	THR	1230	9.585	20.518	28.745	1.00	6.39
ATOM	8916	CA	THR	1230	8.275	19.905	28.592	1.00	2.00
ATOM	8917	CB	THR	1230	7.135	20.912	28.970	1.00	13.32
ATOM	8918	OG1	THR	1230	7.236	21.272	30.358	1.00	20.78
ATOM	8919	CG2	THR	1230	5.757	20.307	28.713	1.00	10.97
ATOM	8920	C	THR	1230	8.122	19.487	27.139	1.00	4.95
ATOM	8921	O	THR	1230	7.780	18.343	26.844	1.00	35.57
ATOM	8922	N	VAL	1231	8.396	20.421	26.237	1.00	2.00
ATOM	8923	CA	VAL	1231	8.291	20.169	24.806	1.00	6.78
ATOM	8924	CB	VAL	1231	8.006	21.473	24.039	1.00	34.13
ATOM	8925	CG1	VAL	1231	6.703	22.068	24.523	1.00	42.71
ATOM	8926	CG2	VAL	1231	9.140	22.469	24.234	1.00	45.25
ATOM	8927	C	VAL	1231	9.522	19.482	24.218	1.00	10.21
ATOM	8928	O	VAL	1231	9.567	19.191	23.018	1.00	27.28
ATOM	8929	N	CYS	1232	10.519	19.240	25.069	1.00	48.80
ATOM	8930	CA	CYS	1232	11.757	18.579	24.662	1.00	54.97
ATOM	8931	C	CYS	1232	11.840	17.209	25.323	1.00	59.89
ATOM	8932	O	CYS	1232	12.669	16.962	26.203	1.00	46.57
ATOM	8933	CB	CYS	1232	12.968	19.429	25.049	1.00	35.11
ATOM	8934	SG	CYS	1232	13.103	21.012	24.159	1.00	40.63
ATOM	8935	N	ASP	1233	10.991	16.309	24.845	1.00	52.28
ATOM	8936	CA	ASP	1233	10.884	14.958	25.372	1.00	55.95
ATOM	8937	CB	ASP	1233	9.714	14.250	24.696	1.00	56.41
ATOM	8938	CG	ASP	1233	8.465	15.112	24.645	1.00	58.08
ATOM	8939	OD1	ASP	1233	8.034	15.456	23.527	1.00	53.35
ATOM	8940	OD2	ASP	1233	7.928	15.457	25.721	1.00	56.11
ATOM	8941	C	ASP	1233	12.139	14.090	25.302	1.00	57.48
ATOM	8942	O	ASP	1233	12.598	13.596	26.328	1.00	50.57
ATOM	8943	N	GLU	1234	12.704	13.918	24.109	1.00	54.73
ATOM	8944	CA	GLU	1234	13.894	13.078	23.941	1.00	50.28

ATOM	8945	CB	GLU	1234	14.281	12.954	22.463	1.00	92.85
ATOM	8946	CG	GLU	1234	15.377	11.911	22.219	1.00	100.00
ATOM	8947	CD	GLU	1234	15.973	11.968	20.823	1.00	100.00
ATOM	8948	OE1	GLU	1234	15.367	11.401	19.884	1.00	100.00
ATOM	8949	OE2	GLU	1234	17.064	12.563	20.672	1.00	100.00
ATOM	8950	C	GLU	1234	15.120	13.505	24.752	1.00	39.09
ATOM	8951	O	GLU	1234	15.814	12.667	25.327	1.00	69.65
ATOM	8952	N	LYS	1235	15.393	14.803	24.780	1.00	23.11
ATOM	8953	CA	LYS	1235	16.540	15.321	25.509	1.00	19.58
ATOM	8954	CB	LYS	1235	16.671	16.841	25.290	1.00	45.21
ATOM	8955	CG	LYS	1235	18.088	17.442	25.480	1.00	39.30
ATOM	8956	CD	LYS	1235	19.048	17.177	24.302	1.00	42.44
ATOM	8957	CE	LYS	1235	18.833	18.122	23.121	1.00	46.38
ATOM	8958	NZ	LYS	1235	19.814	17.891	22.014	1.00	42.49
ATOM	8959	C	LYS	1235	16.361	14.997	26.988	1.00	16.60
ATOM	8960	O	LYS	1235	17.193	14.307	27.572	1.00	46.39
ATOM	8961	N	ILE	1236	15.241	15.423	27.565	1.00	36.17
ATOM	8962	CA	ILE	1236	14.962	15.174	28.983	1.00	36.48
ATOM	8963	CB	ILE	1236	13.727	15.968	29.448	1.00	8.98
ATOM	8964	CG2	ILE	1236	13.456	15.747	30.927	1.00	2.00
ATOM	8965	CG1	ILE	1236	13.984	17.449	29.222	1.00	13.69
ATOM	8966	CD1	ILE	1236	12.856	18.303	29.620	1.00	20.74
ATOM	8967	C	ILE	1236	14.797	13.687	29.338	1.00	42.06
ATOM	8968	O	ILE	1236	15.319	13.209	30.365	1.00	2.03
ATOM	8969	N	GLY	1237	14.093	12.958	28.476	1.00	55.00
ATOM	8970	CA	GLY	1237	13.877	11.546	28.710	1.00	57.36
ATOM	8971	C	GLY	1237	12.602	11.241	29.471	1.00	59.60
ATOM	8972	O	GLY	1237	12.617	10.444	30.411	1.00	52.86
ATOM	8973	N	TRP	1238	11.517	11.928	29.124	1.00	66.04
ATOM	8974	CA	TRP	1238	10.224	11.675	29.753	1.00	64.16
ATOM	8975	CB	TRP	1238	9.227	12.798	29.448	1.00	44.43
ATOM	8976	CG	TRP	1238	9.491	14.138	30.109	1.00	39.31
ATOM	8977	CD2	TRP	1238	9.342	14.461	31.505	1.00	27.30
ATOM	8978	CE2	TRP	1238	9.567	15.847	31.636	1.00	21.49
ATOM	8979	CE3	TRP	1238	9.049	13.721	32.655	1.00	26.79
ATOM	8980	CD1	TRP	1238	9.797	15.310	29.475	1.00	36.71
ATOM	8981	NE1	TRP	1238	9.834	16.339	30.385	1.00	32.47
ATOM	8982	CZ2	TRP	1238	9.485	16.504	32.869	1.00	22.81
ATOM	8983	CZ3	TRP	1238	8.968	14.381	33.884	1.00	26.72
ATOM	8984	CH2	TRP	1238	9.195	15.754	33.977	1.00	27.65
ATOM	8985	C	TRP	1238	9.745	10.403	29.065	1.00	64.81
ATOM	8986	O	TRP	1238	9.798	10.323	27.829	1.00	25.81
ATOM	8987	N	ARG	1239	9.303	9.417	29.850	1.00	64.68
ATOM	8988	CA	ARG	1239	8.836	8.141	29.295	1.00	64.20
ATOM	8989	CB	ARG	1239	9.608	6.972	29.916	1.00	58.60
ATOM	8990	CG	ARG	1239	9.591	6.955	31.422	1.00	63.32
ATOM	8991	CD	ARG	1239	10.374	5.790	31.987	1.00	72.26
ATOM	8992	NE	ARG	1239	10.235	5.747	33.439	1.00	91.56
ATOM	8993	CZ	ARG	1239	10.836	4.867	34.233	1.00	98.62
ATOM	8994	NH1	ARG	1239	11.634	3.932	33.724	1.00	98.62
ATOM	8995	NH2	ARG	1239	10.637	4.930	35.545	1.00	88.26
ATOM	8996	C	ARG	1239	7.326	7.892	29.367	1.00	66.59
ATOM	8997	O	ARG	1239	6.675	8.222	30.360	1.00	67.35
ATOM	8998	N	ASN	1240	6.813	7.244	28.318	1.00	27.89
ATOM	8999	CA	ASN	1240	5.393	6.924	28.128	1.00	29.46
ATOM	9000	CB	ASN	1240	5.237	5.893	27.008	1.00	80.04
ATOM	9001	CG	ASN	1240	5.673	6.432	25.651	1.00	90.86

ATOM	9002	OD1	ASN	1240	4.970	6.272	24.654	1.00100.00
ATOM	9003	ND2	ASN	1240	6.841	7.067	25.609	1.00 99.75
ATOM	9004	C	ASN	1240	4.548	6.532	29.343	1.00 34.46
ATOM	9005	O	ASN	1240	3.861	7.386	29.906	1.00 85.44
ATOM	9006	N	ASP	1241	4.534	5.253	29.713	1.00 77.03
ATOM	9007	CA	ASP	1241	3.752	4.819	30.876	1.00 82.40
ATOM	9008	CB	ASP	1241	3.372	3.335	30.766	1.00 86.60
ATOM	9009	CG	ASP	1241	2.329	3.073	29.690	1.00 89.13
ATOM	9010	OD1	ASP	1241	1.116	3.135	29.998	1.00 78.92
ATOM	9011	OD2	ASP	1241	2.726	2.796	28.537	1.00 91.00
ATOM	9012	C	ASP	1241	4.530	5.077	32.166	1.00 83.95
ATOM	9013	O	ASP	1241	5.092	4.155	32.758	1.00 88.72
ATOM	9014	N	ALA	1242	4.558	6.342	32.586	1.00 41.98
ATOM	9015	CA	ALA	1242	5.270	6.770	33.793	1.00 41.80
ATOM	9016	CB	ALA	1242	6.759	6.881	33.513	1.00 78.41
ATOM	9017	C	ALA	1242	4.738	8.108	34.287	1.00 41.42
ATOM	9018	O	ALA	1242	4.508	9.023	33.495	1.00 89.13
ATOM	9019	N	SER	1243	4.557	8.227	35.598	1.00 43.53
ATOM	9020	CA	SER	1243	4.036	9.459	36.182	1.00 32.50
ATOM	9021	CB	SER	1243	3.652	9.234	37.637	1.00 23.94
ATOM	9022	OG	SER	1243	2.759	10.242	38.052	1.00 26.09
ATOM	9023	C	SER	1243	5.060	10.575	36.082	1.00 28.88
ATOM	9024	O	SER	1243	6.130	10.479	36.685	1.00 25.33
ATOM	9025	N	HIS	1244	4.716	11.631	35.336	1.00 57.12
ATOM	9026	CA	HIS	1244	5.596	12.790	35.104	1.00 49.62
ATOM	9027	CB	HIS	1244	5.317	13.386	33.738	1.00 18.14
ATOM	9028	CG	HIS	1244	5.430	12.404	32.622	1.00 28.73
ATOM	9029	CD2	HIS	1244	6.327	11.419	32.391	1.00 35.98
ATOM	9030	ND1	HIS	1244	4.553	12.385	31.562	1.00 27.19
ATOM	9031	CE1	HIS	1244	4.908	11.429	30.719	1.00 38.61
ATOM	9032	NE2	HIS	1244	5.980	10.830	31.200	1.00 37.05
ATOM	9033	C	HIS	1244	5.504	13.914	36.123	1.00 44.43
ATOM	9034	O	HIS	1244	4.409	14.316	36.516	1.00 30.73
ATOM	9035	N	LEU	1245	6.661	14.446	36.513	1.00 25.18
ATOM	9036	CA	LEU	1245	6.727	15.532	37.492	1.00 29.65
ATOM	9037	CB	LEU	1245	6.921	14.976	38.909	1.00 15.21
ATOM	9038	CG	LEU	1245	5.832	14.117	39.574	1.00 19.28
ATOM	9039	CD1	LEU	1245	5.759	12.726	38.977	1.00 13.21
ATOM	9040	CD2	LEU	1245	6.131	13.997	41.062	1.00 18.83
ATOM	9041	C	LEU	1245	7.850	16.528	37.177	1.00 43.32
ATOM	9042	O	LEU	1245	9.002	16.134	36.968	1.00 47.31
ATOM	9043	N	LEU	1246	7.502	17.814	37.128	1.00 39.00
ATOM	9044	CA	LEU	1246	8.465	18.880	36.848	1.00 33.27
ATOM	9045	CB	LEU	1246	8.009	19.724	35.648	1.00 20.17
ATOM	9046	CG	LEU	1246	8.958	20.797	35.083	1.00 23.50
ATOM	9047	CD1	LEU	1246	10.278	20.163	34.659	1.00 11.38
ATOM	9048	CD2	LEU	1246	8.313	21.505	33.890	1.00 21.30
ATOM	9049	C	LEU	1246	8.560	19.753	38.083	1.00 34.09
ATOM	9050	O	LEU	1246	7.640	20.515	38.381	1.00 26.57
ATOM	9051	N	VAL	1247	9.663	19.615	38.813	1.00 26.85
ATOM	9052	CA	VAL	1247	9.869	20.388	40.031	1.00 28.33
ATOM	9053	CB	VAL	1247	10.717	19.621	41.067	1.00 62.92
ATOM	9054	CG1	VAL	1247	10.517	20.228	42.451	1.00 50.75
ATOM	9055	CG2	VAL	1247	10.347	18.147	41.074	1.00 64.62
ATOM	9056	C	VAL	1247	10.535	21.719	39.708	1.00 29.66
ATOM	9057	O	VAL	1247	11.729	21.785	39.410	1.00 63.17
ATOM	9058	N	PHE	1248	9.733	22.775	39.770	1.00 12.95

ATOM	9059	CA	PHE	1248	10.179	24.123	39.477	1.00	11.26
ATOM	9060	CB	PHE	1248	9.084	24.832	38.693	1.00	6.10
ATOM	9061	CG	PHE	1248	9.395	26.254	38.360	1.00	9.67
ATOM	9062	CD1	PHE	1248	10.102	26.568	37.196	1.00	6.72
ATOM	9063	CD2	PHE	1248	8.947	27.290	39.187	1.00	13.73
ATOM	9064	CE1	PHE	1248	10.350	27.883	36.849	1.00	15.77
ATOM	9065	CE2	PHE	1248	9.185	28.616	38.858	1.00	17.00
ATOM	9066	CZ	PHE	1248	9.889	28.917	37.687	1.00	25.52
ATOM	9067	C	PHE	1248	10.468	24.862	40.776	1.00	16.42
ATOM	9068	O	PHE	1248	9.548	25.347	41.435	1.00	2.00
ATOM	9069	N	THR	1249	11.740	24.908	41.164	1.00	52.60
ATOM	9070	CA	THR	1249	12.137	25.598	42.392	1.00	55.17
ATOM	9071	CB	THR	1249	13.263	24.832	43.178	1.00	39.44
ATOM	9072	OG1	THR	1249	14.494	24.862	42.452	1.00	40.52
ATOM	9073	CG2	THR	1249	12.887	23.391	43.385	1.00	52.40
ATOM	9074	C	THR	1249	12.592	27.022	42.072	1.00	57.26
ATOM	9075	O	THR	1249	13.335	27.242	41.109	1.00	48.39
ATOM	9076	N	THR	1250	12.114	27.986	42.860	1.00	15.46
ATOM	9077	CA	THR	1250	12.467	29.397	42.674	1.00	7.44
ATOM	9078	CB	THR	1250	11.650	30.048	41.531	1.00	27.47
ATOM	9079	OG1	THR	1250	12.238	31.306	41.173	1.00	36.06
ATOM	9080	CG2	THR	1250	10.213	30.274	41.958	1.00	34.21
ATOM	9081	C	THR	1250	12.272	30.215	43.945	1.00	5.98
ATOM	9082	O	THR	1250	11.402	29.937	44.760	1.00	4.88
ATOM	9083	N	ASP	1251	13.074	31.251	44.106	1.00	53.06
ATOM	9084	CA	ASP	1251	12.958	32.070	45.298	1.00	56.11
ATOM	9085	CB	ASP	1251	14.275	32.028	46.083	1.00	39.49
ATOM	9086	CG	ASP	1251	15.401	32.771	45.389	1.00	44.98
ATOM	9087	OD1	ASP	1251	16.187	33.428	46.098	1.00	49.27
ATOM	9088	OD2	ASP	1251	15.503	32.714	44.147	1.00	47.32
ATOM	9089	C	ASP	1251	12.586	33.506	44.965	1.00	48.53
ATOM	9090	O	ASP	1251	12.438	34.343	45.858	1.00	11.55
ATOM	9091	N	ALA	1252	12.405	33.774	43.676	1.00	14.00
ATOM	9092	CA	ALA	1252	12.088	35.110	43.217	1.00	22.51
ATOM	9093	CB	ALA	1252	13.348	35.764	42.659	1.00	13.54
ATOM	9094	C	ALA	1252	10.987	35.121	42.177	1.00	26.24
ATOM	9095	O	ALA	1252	10.554	34.072	41.708	1.00	25.80
ATOM	9096	N	LYS	1253	10.553	36.331	41.823	1.00	24.13
ATOM	9097	CA	LYS	1253	9.506	36.551	40.832	1.00	17.82
ATOM	9098	CB	LYS	1253	9.205	38.048	40.678	1.00	22.43
ATOM	9099	CG	LYS	1253	8.499	38.675	41.878	1.00	34.49
ATOM	9100	CD	LYS	1253	8.019	40.120	41.632	1.00	38.10
ATOM	9101	CE	LYS	1253	9.177	41.116	41.605	1.00	44.15
ATOM	9102	NZ	LYS	1253	8.744	42.536	41.791	1.00	29.08
ATOM	9103	C	LYS	1253	9.915	35.968	39.496	1.00	16.91
ATOM	9104	O	LYS	1253	10.995	35.381	39.363	1.00	20.85
ATOM	9105	N	THR	1254	9.045	36.124	38.508	1.00	22.27
ATOM	9106	CA	THR	1254	9.325	35.605	37.179	1.00	30.14
ATOM	9107	CB	THR	1254	8.663	34.240	36.954	1.00	12.96
ATOM	9108	OG1	THR	1254	9.061	33.729	35.673	1.00	26.67
ATOM	9109	CG2	THR	1254	7.138	34.383	36.985	1.00	9.30
ATOM	9110	C	THR	1254	8.839	36.525	36.073	1.00	28.13
ATOM	9111	O	THR	1254	7.954	37.359	36.279	1.00	12.02
ATOM	9112	N	HIS	1255	9.440	36.372	34.899	1.00	16.88
ATOM	9113	CA	HIS	1255	9.041	37.161	33.756	1.00	29.10
ATOM	9114	CB	HIS	1255	10.201	37.389	32.790	1.00	32.65
ATOM	9115	CG	HIS	1255	11.103	38.501	33.202	1.00	25.25

ATOM	9116	CD2	HIS	1255	12.429	38.516	33.489	1.00	20.25
ATOM	9117	ND1	HIS	1255	10.648	39.777	33.429	1.00	21.55
ATOM	9118	CE1	HIS	1255	11.651	40.534	33.847	1.00	22.59
ATOM	9119	NE2	HIS	1255	12.739	39.787	33.890	1.00	25.64
ATOM	9120	C	HIS	1255	7.946	36.408	33.062	1.00	23.01
ATOM	9121	O	HIS	1255	7.985	35.180	32.983	1.00	27.43
ATOM	9122	N	ILE	1256	6.956	37.161	32.601	1.00	2.00
ATOM	9123	CA	ILE	1256	5.822	36.614	31.892	1.00	2.00
ATOM	9124	CB	ILE	1256	4.517	37.205	32.450	1.00	17.55
ATOM	9125	CG2	ILE	1256	4.641	37.360	33.959	1.00	8.13
ATOM	9126	CG1	ILE	1256	4.241	38.586	31.858	1.00	13.84
ATOM	9127	CD1	ILE	1256	3.027	39.267	32.435	1.00	15.62
ATOM	9128	C	ILE	1256	6.004	36.941	30.412	1.00	2.00
ATOM	9129	O	ILE	1256	7.020	37.505	30.034	1.00	2.00
ATOM	9130	N	ALA	1257	5.055	36.543	29.569	1.00	6.32
ATOM	9131	CA	ALA	1257	5.170	36.827	28.143	1.00	4.88
ATOM	9132	CB	ALA	1257	4.225	35.956	27.330	1.00	3.15
ATOM	9133	C	ALA	1257	4.858	38.299	27.930	1.00	6.23
ATOM	9134	O	ALA	1257	4.030	38.873	28.646	1.00	3.15
ATOM	9135	N	LEU	1258	5.537	38.887	26.945	1.00	35.81
ATOM	9136	CA	LEU	1258	5.417	40.294	26.553	1.00	34.87
ATOM	9137	CB	LEU	1258	3.993	40.800	26.675	1.00	2.00
ATOM	9138	CG	LEU	1258	3.115	40.045	25.690	1.00	2.82
ATOM	9139	CD1	LEU	1258	1.693	40.549	25.760	1.00	2.00
ATOM	9140	CD2	LEU	1258	3.687	40.197	24.287	1.00	3.62
ATOM	9141	C	LEU	1258	6.404	41.200	27.262	1.00	40.32
ATOM	9142	O	LEU	1258	6.664	42.335	26.830	1.00	16.15
ATOM	9143	N	ASP	1259	6.967	40.677	28.345	1.00	10.67
ATOM	9144	CA	ASP	1259	7.994	41.380	29.088	1.00	5.88
ATOM	9145	CB	ASP	1259	8.449	40.526	30.261	1.00	2.00
ATOM	9146	CG	ASP	1259	7.495	40.571	31.420	1.00	8.53
ATOM	9147	OD1	ASP	1259	6.423	41.217	31.308	1.00	4.58
ATOM	9148	OD2	ASP	1259	7.849	39.971	32.459	1.00	4.68
ATOM	9149	C	ASP	1259	9.178	41.535	28.144	1.00	11.50
ATOM	9150	O	ASP	1259	9.954	42.474	28.240	1.00	27.09
ATOM	9151	N	GLY	1260	9.302	40.583	27.233	1.00	2.00
ATOM	9152	CA	GLY	1260	10.394	40.587	26.293	1.00	2.00
ATOM	9153	C	GLY	1260	10.392	41.691	25.277	1.00	2.00
ATOM	9154	O	GLY	1260	11.353	41.791	24.516	1.00	2.00
ATOM	9155	N	ARG	1261	9.341	42.507	25.232	1.00	7.94
ATOM	9156	CA	ARG	1261	9.330	43.595	24.253	1.00	11.72
ATOM	9157	CB	ARG	1261	8.003	44.344	24.217	1.00	2.00
ATOM	9158	CG	ARG	1261	7.738	44.894	22.831	1.00	2.00
ATOM	9159	CD	ARG	1261	7.500	46.371	22.789	1.00	4.12
ATOM	9160	NE	ARG	1261	6.099	46.742	22.979	1.00	2.00
ATOM	9161	CZ	ARG	1261	5.338	47.318	22.047	1.00	2.00
ATOM	9162	NH1	ARG	1261	5.832	47.568	20.848	1.00	2.00
ATOM	9163	NH2	ARG	1261	4.118	47.758	22.349	1.00	13.43
ATOM	9164	C	ARG	1261	10.456	44.575	24.547	1.00	8.71
ATOM	9165	O	ARG	1261	11.106	45.078	23.631	1.00	2.00
ATOM	9166	N	LEU	1262	10.698	44.797	25.840	1.00	2.00
ATOM	9167	CA	LEU	1262	11.744	45.689	26.302	1.00	2.00
ATOM	9168	CB	LEU	1262	11.800	45.744	27.829	1.00	2.01
ATOM	9169	CG	LEU	1262	10.512	45.920	28.642	1.00	12.66
ATOM	9170	CD1	LEU	1262	10.804	46.737	29.877	1.00	12.52
ATOM	9171	CD2	LEU	1262	9.422	46.586	27.852	1.00	13.70
ATOM	9172	C	LEU	1262	13.068	45.188	25.762	1.00	2.00

ATOM	9173	O	LEU	1262	13.709	45.878	24.981	1.00	11.69
ATOM	9174	N	ALA	1263	13.438	43.959	26.098	1.00	2.00
ATOM	9175	CA	ALA	1263	14.698	43.412	25.621	1.00	2.00
ATOM	9176	CB	ALA	1263	14.927	42.064	26.206	1.00	2.00
ATOM	9177	C	ALA	1263	14.828	43.354	24.096	1.00	2.00
ATOM	9178	O	ALA	1263	15.860	42.903	23.571	1.00	2.00
ATOM	9179	N	GLY	1264	13.796	43.830	23.397	1.00	2.00
ATOM	9180	CA	GLY	1264	13.806	43.824	21.945	1.00	6.59
ATOM	9181	C	GLY	1264	13.303	42.546	21.278	1.00	15.13
ATOM	9182	O	GLY	1264	13.579	42.312	20.101	1.00	14.53
ATOM	9183	N	ILE	1265	12.553	41.727	22.015	1.00	18.98
ATOM	9184	CA	ILE	1265	12.012	40.476	21.481	1.00	8.47
ATOM	9185	CB	ILE	1265	12.246	39.318	22.450	1.00	2.00
ATOM	9186	CG2	ILE	1265	12.056	37.997	21.722	1.00	12.77
ATOM	9187	CG1	ILE	1265	13.673	39.369	22.987	1.00	2.00
ATOM	9188	CD1	ILE	1265	13.942	38.385	24.097	1.00	3.07
ATOM	9189	C	ILE	1265	10.508	40.571	21.162	1.00	6.97
ATOM	9190	O	ILE	1265	9.658	40.712	22.054	1.00	2.00
ATOM	9191	N	VAL	1266	10.181	40.467	19.880	1.00	2.00
ATOM	9192	CA	VAL	1266	8.793	40.565	19.456	1.00	12.54
ATOM	9193	CB	VAL	1266	8.592	41.772	18.526	1.00	17.95
ATOM	9194	CG1	VAL	1266	8.620	43.067	19.332	1.00	17.71
ATOM	9195	CG2	VAL	1266	9.682	41.781	17.461	1.00	13.04
ATOM	9196	C	VAL	1266	8.262	39.284	18.805	1.00	22.85
ATOM	9197	O	VAL	1266	7.150	39.251	18.263	1.00	23.21
ATOM	9198	N	GLN	1267	9.085	38.246	18.805	1.00	17.56
ATOM	9199	CA	GLN	1267	8.653	36.968	18.276	1.00	18.46
ATOM	9200	CB	GLN	1267	9.803	36.212	17.622	1.00	52.19
ATOM	9201	CG	GLN	1267	9.391	34.854	17.094	1.00	65.28
ATOM	9202	CD	GLN	1267	10.550	34.086	16.528	1.00	72.94
ATOM	9203	OE1	GLN	1267	11.355	33.521	17.269	1.00	78.67
ATOM	9204	NE2	GLN	1267	10.652	34.061	15.203	1.00	76.16
ATOM	9205	C	GLN	1267	8.158	36.199	19.500	1.00	18.50
ATOM	9206	O	GLN	1267	8.925	35.927	20.432	1.00	40.70
ATOM	9207	N	PRO	1268	6.861	35.852	19.519	1.00	30.09
ATOM	9208	CD	PRO	1268	5.895	36.061	18.423	1.00	5.00
ATOM	9209	CA	PRO	1268	6.239	35.118	20.623	1.00	29.14
ATOM	9210	CB	PRO	1268	4.760	35.209	20.265	1.00	8.42
ATOM	9211	CG	PRO	1268	4.792	35.119	18.777	1.00	2.00
ATOM	9212	C	PRO	1268	6.709	33.666	20.679	1.00	33.33
ATOM	9213	O	PRO	1268	7.310	33.169	19.720	1.00	12.92
ATOM	9214	N	ASN	1269	6.446	32.993	21.798	1.00	26.42
ATOM	9215	CA	ASN	1269	6.820	31.583	21.944	1.00	23.98
ATOM	9216	CB	ASN	1269	6.636	31.139	23.403	1.00	11.29
ATOM	9217	CG	ASN	1269	7.593	30.021	23.815	1.00	14.99
ATOM	9218	OD1	ASN	1269	7.963	29.917	24.982	1.00	14.92
ATOM	9219	ND2	ASN	1269	7.996	29.189	22.861	1.00	15.80
ATOM	9220	C	ASN	1269	5.996	30.672	20.985	1.00	24.88
ATOM	9221	O	ASN	1269	4.782	30.839	20.810	1.00	11.24
ATOM	9222	N	ASP	1270	6.677	29.732	20.336	1.00	25.13
ATOM	9223	CA	ASP	1270	6.026	28.813	19.414	1.00	26.25
ATOM	9224	CB	ASP	1270	6.937	28.548	18.216	1.00	9.15
ATOM	9225	CG	ASP	1270	8.355	28.109	18.616	1.00	16.33
ATOM	9226	OD1	ASP	1270	8.583	27.670	19.770	1.00	2.00
ATOM	9227	OD2	ASP	1270	9.250	28.198	17.744	1.00	15.08
ATOM	9228	C	ASP	1270	5.643	27.494	20.094	1.00	33.98
ATOM	9229	O	ASP	1270	4.807	26.740	19.591	1.00	30.03

ATOM	9230	N	GLY	1271	6.269	27.221	21.235	1.00	15.51
ATOM	9231	CA	GLY	1271	5.986	26.001	21.965	1.00	8.82
ATOM	9232	C	GLY	1271	6.761	24.779	21.495	1.00	9.51
ATOM	9233	O	GLY	1271	6.471	23.665	21.931	1.00	59.47
ATOM	9234	N	GLN	1272	7.740	24.972	20.609	1.00	7.77
ATOM	9235	CA	GLN	1272	8.542	23.858	20.100	1.00	9.74
ATOM	9236	CB	GLN	1272	8.952	24.107	18.648	1.00	26.80
ATOM	9237	CG	GLN	1272	7.831	24.564	17.730	1.00	53.63
ATOM	9238	CD	GLN	1272	6.802	23.483	17.435	1.00	71.80
ATOM	9239	OE1	GLN	1272	6.302	22.807	18.340	1.00	86.62
ATOM	9240	NE2	GLN	1272	6.467	23.328	16.155	1.00	81.05
ATOM	9241	C	GLN	1272	9.803	23.645	20.935	1.00	12.49
ATOM	9242	O	GLN	1272	10.107	24.422	21.847	1.00	31.80
ATOM	9243	N	CYS	1273	10.529	22.576	20.626	1.00	38.25
ATOM	9244	CA	CYS	1273	11.768	22.298	21.331	1.00	39.32
ATOM	9245	C	CYS	1273	12.862	23.083	20.632	1.00	38.61
ATOM	9246	O	CYS	1273	12.932	23.071	19.398	1.00	20.53
ATOM	9247	CB	CYS	1273	12.112	20.813	21.305	1.00	37.34
ATOM	9248	SG	CYS	1273	13.624	20.473	22.263	1.00	46.47
ATOM	9249	N	HIS	1274	13.700	23.764	21.422	1.00	43.21
ATOM	9250	CA	HIS	1274	14.793	24.577	20.890	1.00	45.02
ATOM	9251	CB	HIS	1274	14.427	26.061	20.958	1.00	39.12
ATOM	9252	CG	HIS	1274	13.261	26.425	20.098	1.00	45.07
ATOM	9253	CD2	HIS	1274	11.969	26.722	20.412	1.00	48.01
ATOM	9254	ND1	HIS	1274	13.332	26.478	18.721	1.00	38.74
ATOM	9255	CE1	HIS	1274	12.147	26.786	18.224	1.00	48.98
ATOM	9256	NE2	HIS	1274	11.303	26.939	19.237	1.00	48.18
ATOM	9257	C	HIS	1274	16.214	24.336	21.426	1.00	46.02
ATOM	9258	O	HIS	1274	17.160	24.974	20.952	1.00	56.07
ATOM	9259	N	VAL	1275	16.379	23.432	22.395	1.00	41.78
ATOM	9260	CA	VAL	1275	17.725	23.118	22.899	1.00	43.15
ATOM	9261	CB	VAL	1275	17.739	22.187	24.150	1.00	2.00
ATOM	9262	CG1	VAL	1275	17.082	22.845	25.335	1.00	2.00
ATOM	9263	CG2	VAL	1275	17.076	20.877	23.829	1.00	13.00
ATOM	9264	C	VAL	1275	18.468	22.372	21.788	1.00	65.82
ATOM	9265	O	VAL	1275	17.854	21.656	20.988	1.00	44.39
ATOM	9266	N	GLY	1276	19.783	22.554	21.734	1.00	100.00
ATOM	9267	CA	GLY	1276	20.581	21.886	20.722	1.00	100.00
ATOM	9268	C	GLY	1276	21.530	20.897	21.362	1.00	100.00
ATOM	9269	O	GLY	1276	21.379	20.564	22.542	1.00	96.55
ATOM	9270	N	SER	1277	22.499	20.421	20.581	1.00	60.60
ATOM	9271	CA	SER	1277	23.496	19.475	21.075	1.00	51.94
ATOM	9272	CB	SER	1277	24.521	19.154	19.978	1.00	52.61
ATOM	9273	OG	SER	1277	25.196	20.314	19.526	1.00	55.14
ATOM	9274	C	SER	1277	24.198	20.056	22.301	1.00	42.89
ATOM	9275	O	SER	1277	24.545	19.341	23.227	1.00	34.08
ATOM	9276	N	ASP	1278	24.345	21.372	22.320	1.00	20.16
ATOM	9277	CA	ASP	1278	24.989	22.066	23.426	1.00	20.25
ATOM	9278	CB	ASP	1278	25.429	23.467	22.987	1.00	71.20
ATOM	9279	CG	ASP	1278	24.500	24.074	21.953	1.00	78.59
ATOM	9280	OD1	ASP	1278	23.563	24.804	22.345	1.00	82.70
ATOM	9281	OD2	ASP	1278	24.709	23.811	20.748	1.00	77.97
ATOM	9282	C	ASP	1278	24.128	22.141	24.683	1.00	20.65
ATOM	9283	O	ASP	1278	24.605	22.568	25.735	1.00	76.38
ATOM	9284	N	ASN	1279	22.867	21.725	24.566	1.00	67.62
ATOM	9285	CA	ASN	1279	21.920	21.708	25.688	1.00	63.15
ATOM	9286	CB	ASN	1279	22.430	20.786	26.803	1.00	46.73

ATOM	9287	CG	ASN	1279	22.709	19.387	26.314	1.00	48.29
ATOM	9288	OD1	ASN	1279	21.980	18.853	25.481	1.00	56.00
ATOM	9289	ND2	ASN	1279	23.783	18.791	26.811	1.00	55.39
ATOM	9290	C	ASN	1279	21.536	23.075	26.271	1.00	59.70
ATOM	9291	O	ASN	1279	21.171	23.190	27.449	1.00	36.56
ATOM	9292	N	HIS	1280	21.611	24.101	25.433	1.00	58.40
ATOM	9293	CA	HIS	1280	21.261	25.461	25.820	1.00	58.44
ATOM	9294	CB	HIS	1280	22.459	26.396	25.608	1.00	47.07
ATOM	9295	CG	HIS	1280	23.396	26.471	26.781	1.00	54.48
ATOM	9296	CD2	HIS	1280	24.607	27.057	26.903	1.00	54.48
ATOM	9297	ND1	HIS	1280	23.097	25.942	28.016	1.00	51.50
ATOM	9298	CE1	HIS	1280	24.080	26.200	28.853	1.00	51.78
ATOM	9299	NE2	HIS	1280	25.016	26.878	28.208	1.00	43.15
ATOM	9300	C	HIS	1280	20.106	25.915	24.934	1.00	52.60
ATOM	9301	O	HIS	1280	20.111	25.651	23.729	1.00	42.76
ATOM	9302	N	TYR	1281	19.110	26.564	25.537	1.00	17.49
ATOM	9303	CA	TYR	1281	17.938	27.083	24.812	1.00	15.73
ATOM	9304	CB	TYR	1281	16.922	27.635	25.825	1.00	13.94
ATOM	9305	CG	TYR	1281	15.673	28.277	25.250	1.00	17.01
ATOM	9306	CD1	TYR	1281	15.262	28.026	23.945	1.00	22.33
ATOM	9307	CE1	TYR	1281	14.114	28.625	23.419	1.00	25.27
ATOM	9308	CD2	TYR	1281	14.903	29.145	26.021	1.00	17.04
ATOM	9309	CE2	TYR	1281	13.763	29.743	25.507	1.00	24.17
ATOM	9310	CZ	TYR	1281	13.369	29.476	24.207	1.00	26.01
ATOM	9311	OH	TYR	1281	12.206	30.029	23.708	1.00	33.27
ATOM	9312	C	TYR	1281	18.393	28.176	23.826	1.00	19.55
ATOM	9313	O	TYR	1281	18.832	29.256	24.235	1.00	29.48
ATOM	9314	N	SER	1282	18.291	27.875	22.531	1.00	2.00
ATOM	9315	CA	SER	1282	18.705	28.777	21.456	1.00	2.29
ATOM	9316	CB	SER	1282	18.684	28.028	20.119	1.00	20.53
ATOM	9317	OG	SER	1282	18.735	28.931	19.024	1.00	36.88
ATOM	9318	C	SER	1282	17.924	30.088	21.320	1.00	3.73
ATOM	9319	O	SER	1282	18.510	31.172	21.275	1.00	26.62
ATOM	9320	N	ALA	1283	16.608	29.994	21.218	1.00	11.35
ATOM	9321	CA	ALA	1283	15.796	31.185	21.055	1.00	9.03
ATOM	9322	CB	ALA	1283	14.436	30.834	20.453	1.00	19.24
ATOM	9323	C	ALA	1283	15.621	31.957	22.340	1.00	8.99
ATOM	9324	O	ALA	1283	14.819	32.888	22.385	1.00	21.95
ATOM	9325	N	SER	1284	16.388	31.607	23.372	1.00	5.57
ATOM	9326	CA	SER	1284	16.274	32.315	24.646	1.00	5.01
ATOM	9327	CB	SER	1284	17.366	31.904	25.639	1.00	2.00
ATOM	9328	OG	SER	1284	17.109	32.472	26.922	1.00	6.61
ATOM	9329	C	SER	1284	16.335	33.824	24.418	1.00	5.01
ATOM	9330	O	SER	1284	15.612	34.585	25.065	1.00	6.57
ATOM	9331	N	THR	1285	17.173	34.240	23.469	1.00	40.64
ATOM	9332	CA	THR	1285	17.328	35.653	23.144	1.00	39.36
ATOM	9333	CB	THR	1285	18.809	36.018	22.891	1.00	10.54
ATOM	9334	OG1	THR	1285	19.328	35.215	21.826	1.00	9.57
ATOM	9335	CG2	THR	1285	19.647	35.799	24.152	1.00	21.29
ATOM	9336	C	THR	1285	16.484	36.085	21.946	1.00	38.07
ATOM	9337	O	THR	1285	16.101	37.245	21.843	1.00	14.40
ATOM	9338	N	THR	1286	16.165	35.145	21.063	1.00	3.57
ATOM	9339	CA	THR	1286	15.367	35.437	19.866	1.00	4.34
ATOM	9340	CB	THR	1286	15.817	34.533	18.661	1.00	11.05
ATOM	9341	OG1	THR	1286	14.822	33.534	18.400	1.00	14.87
ATOM	9342	CG2	THR	1286	17.148	33.823	18.963	1.00	21.09
ATOM	9343	C	THR	1286	13.833	35.301	20.041	1.00	9.63

ATOM	9344	O	THR	1286	13.077	35.782	19.197	1.00	14.65
ATOM	9345	N	MET	1287	13.383	34.739	21.167	1.00	12.71
ATOM	9346	CA	MET	1287	11.953	34.480	21.391	1.00	12.07
ATOM	9347	CB	MET	1287	11.691	33.019	20.974	1.00	12.36
ATOM	9348	CG	MET	1287	10.362	32.364	21.362	1.00	18.58
ATOM	9349	SD	MET	1287	10.268	30.725	20.604	1.00	17.80
ATOM	9350	CE	MET	1287	10.156	31.197	18.897	1.00	2.00
ATOM	9351	C	MET	1287	11.347	34.758	22.779	1.00	3.65
ATOM	9352	O	MET	1287	11.661	34.080	23.768	1.00	2.00
ATOM	9353	N	ASP	1288	10.364	35.660	22.786	1.00	2.00
ATOM	9354	CA	ASP	1288	9.638	36.083	23.990	1.00	7.75
ATOM	9355	CB	ASP	1288	8.561	37.110	23.599	1.00	4.88
ATOM	9356	CG	ASP	1288	7.815	37.712	24.803	1.00	13.94
ATOM	9357	OD1	ASP	1288	8.358	37.788	25.928	1.00	2.00
ATOM	9358	OD2	ASP	1288	6.661	38.136	24.593	1.00	26.83
ATOM	9359	C	ASP	1288	9.009	34.946	24.806	1.00	8.57
ATOM	9360	O	ASP	1288	8.562	33.931	24.267	1.00	10.95
ATOM	9361	N	TYR	1289	8.929	35.180	26.111	1.00	2.00
ATOM	9362	CA	TYR	1289	8.385	34.241	27.077	1.00	2.00
ATOM	9363	CB	TYR	1289	8.195	34.944	28.411	1.00	5.57
ATOM	9364	CG	TYR	1289	9.466	35.554	28.890	1.00	19.66
ATOM	9365	CD1	TYR	1289	9.791	36.874	28.584	1.00	28.54
ATOM	9366	CE1	TYR	1289	11.007	37.421	28.973	1.00	26.66
ATOM	9367	CD2	TYR	1289	10.384	34.794	29.588	1.00	21.91
ATOM	9368	CE2	TYR	1289	11.591	35.319	29.979	1.00	20.04
ATOM	9369	CZ	TYR	1289	11.909	36.629	29.673	1.00	17.74
ATOM	9370	OH	TYR	1289	13.131	37.126	30.090	1.00	19.92
ATOM	9371	C	TYR	1289	7.080	33.626	26.668	1.00	10.01
ATOM	9372	O	TYR	1289	6.289	34.249	25.955	1.00	13.39
ATOM	9373	N	PRO	1290	6.844	32.374	27.105	1.00	20.16
ATOM	9374	CD	PRO	1290	7.797	31.562	27.888	1.00	8.35
ATOM	9375	CA	PRO	1290	5.630	31.607	26.820	1.00	13.80
ATOM	9376	CB	PRO	1290	6.049	30.187	27.174	1.00	2.00
ATOM	9377	CG	PRO	1290	6.943	30.395	28.346	1.00	2.46
ATOM	9378	C	PRO	1290	4.465	32.108	27.693	1.00	16.99
ATOM	9379	O	PRO	1290	4.659	32.554	28.837	1.00	11.26
ATOM	9380	N	SER	1291	3.263	32.061	27.129	1.00	2.00
ATOM	9381	CA	SER	1291	2.061	32.523	27.813	1.00	2.00
ATOM	9382	CB	SER	1291	1.045	32.995	26.780	1.00	25.37
ATOM	9383	OG	SER	1291	1.026	32.113	25.669	1.00	25.09
ATOM	9384	C	SER	1291	1.439	31.457	28.690	1.00	9.85
ATOM	9385	O	SER	1291	1.601	30.262	28.439	1.00	39.15
ATOM	9386	N	LEU	1292	0.695	31.896	29.701	1.00	21.24
ATOM	9387	CA	LEU	1292	0.024	30.981	30.623	1.00	9.69
ATOM	9388	CB	LEU	1292	-0.797	31.773	31.636	1.00	2.00
ATOM	9389	CG	LEU	1292	-0.262	31.761	33.074	1.00	2.00
ATOM	9390	CD1	LEU	1292	1.259	31.660	33.119	1.00	2.00
ATOM	9391	CD2	LEU	1292	-0.763	32.995	33.816	1.00	2.00
ATOM	9392	C	LEU	1292	-0.848	29.964	29.885	1.00	14.06
ATOM	9393	O	LEU	1292	-0.996	28.826	30.323	1.00	24.39
ATOM	9394	N	GLY	1293	-1.367	30.371	28.731	1.00	16.49
ATOM	9395	CA	GLY	1293	-2.191	29.496	27.925	1.00	13.15
ATOM	9396	C	GLY	1293	-1.344	28.462	27.217	1.00	15.50
ATOM	9397	O	GLY	1293	-1.616	27.273	27.333	1.00	48.07
ATOM	9398	N	LEU	1294	-0.308	28.907	26.504	1.00	25.38
ATOM	9399	CA	LEU	1294	0.579	27.995	25.775	1.00	17.14
ATOM	9400	CB	LEU	1294	1.546	28.762	24.883	1.00	6.58

ATOM	9401	CG	LEU	1294	2.367	27.847	23.974	1.00	7.25
ATOM	9402	CD1	LEU	1294	1.577	27.577	22.700	1.00	13.66
ATOM	9403	CD2	LEU	1294	3.740	28.463	23.653	1.00	5.99
ATOM	9404	C	LEU	1294	1.367	27.076	26.711	1.00	24.13
ATOM	9405	O	LEU	1294	1.808	25.998	26.318	1.00	17.56
ATOM	9406	N	MET	1295	1.608	27.529	27.932	1.00	24.21
ATOM	9407	CA	MET	1295	2.294	26.684	28.894	1.00	33.71
ATOM	9408	CB	MET	1295	2.612	27.469	30.167	1.00	3.43
ATOM	9409	CG	MET	1295	3.669	28.546	29.999	1.00	8.00
ATOM	9410	SD	MET	1295	3.954	29.395	31.547	1.00	20.09
ATOM	9411	CE	MET	1295	5.140	28.333	32.284	1.00	16.32
ATOM	9412	C	MET	1295	1.260	25.605	29.189	1.00	41.05
ATOM	9413	O	MET	1295	1.434	24.437	28.837	1.00	26.16
ATOM	9414	N	THR	1296	0.131	26.061	29.723	1.00	28.77
ATOM	9415	CA	THR	1296	-1.011	25.227	30.070	1.00	18.22
ATOM	9416	CB	THR	1296	-2.231	26.139	30.385	1.00	6.33
ATOM	9417	OG1	THR	1296	-2.358	26.305	31.801	1.00	3.71
ATOM	9418	CG2	THR	1296	-3.525	25.595	29.800	1.00	8.67
ATOM	9419	C	THR	1296	-1.365	24.198	28.983	1.00	16.82
ATOM	9420	O	THR	1296	-1.793	23.080	29.284	1.00	9.25
ATOM	9421	N	GLU	1297	-1.153	24.567	27.725	1.00	3.78
ATOM	9422	CA	GLU	1297	-1.464	23.679	26.613	1.00	7.62
ATOM	9423	CB	GLU	1297	-1.449	24.439	25.283	1.00	46.02
ATOM	9424	CG	GLU	1297	-1.848	23.577	24.100	1.00	57.13
ATOM	9425	CD	GLU	1297	-1.968	24.354	22.804	1.00	81.81
ATOM	9426	OE1	GLU	1297	-0.930	24.591	22.152	1.00	91.91
ATOM	9427	OE2	GLU	1297	-3.104	24.712	22.425	1.00	88.33
ATOM	9428	C	GLU	1297	-0.504	22.510	26.546	1.00	5.98
ATOM	9429	O	GLU	1297	-0.887	21.368	26.793	1.00	55.15
ATOM	9430	N	LYS	1298	0.751	22.811	26.240	1.00	9.54
ATOM	9431	CA	LYS	1298	1.782	21.795	26.126	1.00	7.89
ATOM	9432	CB	LYS	1298	3.099	22.449	25.718	1.00	13.23
ATOM	9433	CG	LYS	1298	3.036	23.159	24.379	1.00	7.27
ATOM	9434	CD	LYS	1298	3.270	22.191	23.237	1.00	19.31
ATOM	9435	CE	LYS	1298	3.329	22.886	21.875	1.00	23.71
ATOM	9436	NZ	LYS	1298	2.026	23.486	21.452	1.00	32.65
ATOM	9437	C	LYS	1298	1.955	20.956	27.398	1.00	10.00
ATOM	9438	O	LYS	1298	2.456	19.836	27.341	1.00	22.07
ATOM	9439	N	LEU	1299	1.510	21.469	28.538	1.00	2.00
ATOM	9440	CA	LEU	1299	1.634	20.719	29.782	1.00	5.46
ATOM	9441	CB	LEU	1299	1.264	21.622	30.962	1.00	2.00
ATOM	9442	CG	LEU	1299	2.363	21.867	32.008	1.00	2.00
ATOM	9443	CD1	LEU	1299	3.751	21.975	31.377	1.00	2.00
ATOM	9444	CD2	LEU	1299	2.034	23.115	32.791	1.00	2.00
ATOM	9445	C	LEU	1299	0.752	19.464	29.751	1.00	13.14
ATOM	9446	O	LEU	1299	1.216	18.337	29.964	1.00	18.56
ATOM	9447	N	SER	1300	-0.515	19.673	29.424	1.00	29.01
ATOM	9448	CA	SER	1300	-1.479	18.591	29.343	1.00	26.49
ATOM	9449	CB	SER	1300	-2.879	19.172	29.148	1.00	14.98
ATOM	9450	OG	SER	1300	-2.964	19.868	27.922	1.00	37.07
ATOM	9451	C	SER	1300	-1.161	17.623	28.205	1.00	22.26
ATOM	9452	O	SER	1300	-1.428	16.433	28.306	1.00	22.51
ATOM	9453	N	GLN	1301	-0.605	18.144	27.121	1.00	2.00
ATOM	9454	CA	GLN	1301	-0.261	17.337	25.957	1.00	6.35
ATOM	9455	CB	GLN	1301	0.183	18.219	24.795	1.00	36.26
ATOM	9456	CG	GLN	1301	-0.889	19.116	24.228	1.00	56.73
ATOM	9457	CD	GLN	1301	-0.397	19.890	23.023	1.00	65.57

ATOM	9458	OE1	GLN	1301	0.641	19.565	22.445	1.00	72.32
ATOM	9459	NE2	GLN	1301	-1.141	20.918	22.633	1.00	67.71
ATOM	9460	C	GLN	1301	0.845	16.344	26.226	1.00	14.34
ATOM	9461	O	GLN	1301	0.867	15.270	25.631	1.00	51.03
ATOM	9462	N	LYS	1302	1.800	16.728	27.066	1.00	8.73
ATOM	9463	CA	LYS	1302	2.923	15.852	27.391	1.00	4.83
ATOM	9464	CB	LYS	1302	4.242	16.640	27.394	1.00	13.07
ATOM	9465	CG	LYS	1302	4.536	17.411	26.111	1.00	4.46
ATOM	9466	CD	LYS	1302	4.608	16.484	24.936	1.00	10.50
ATOM	9467	CE	LYS	1302	5.090	17.195	23.695	1.00	21.67
ATOM	9468	NZ	LYS	1302	5.298	16.221	22.583	1.00	36.18
ATOM	9469	C	LYS	1302	2.696	15.179	28.746	1.00	6.37
ATOM	9470	O	LYS	1302	3.528	14.396	29.216	1.00	17.72
ATOM	9471	N	ASN	1303	1.567	15.515	29.368	1.00	8.14
ATOM	9472	CA	ASN	1303	1.155	14.957	30.655	1.00	16.71
ATOM	9473	CB	ASN	1303	0.815	13.456	30.540	1.00	23.63
ATOM	9474	CG	ASN	1303	-0.439	13.187	29.704	1.00	27.04
ATOM	9475	OD1	ASN	1303	-0.396	12.401	28.755	1.00	21.76
ATOM	9476	ND2	ASN	1303	-1.563	13.835	30.060	1.00	29.00
ATOM	9477	C	ASN	1303	2.169	15.171	31.757	1.00	17.64
ATOM	9478	O	ASN	1303	2.492	14.253	32.510	1.00	20.89
ATOM	9479	N	ILE	1304	2.687	16.387	31.838	1.00	31.77
ATOM	9480	CA	ILE	1304	3.644	16.703	32.878	1.00	22.83
ATOM	9481	CB	ILE	1304	4.720	17.659	32.393	1.00	2.00
ATOM	9482	CG2	ILE	1304	5.861	17.666	33.396	1.00	11.24
ATOM	9483	CG1	ILE	1304	5.193	17.287	30.980	1.00	2.00
ATOM	9484	CD1	ILE	1304	6.110	16.099	30.892	1.00	2.00
ATOM	9485	C	ILE	1304	2.884	17.375	34.018	1.00	25.22
ATOM	9486	O	ILE	1304	1.828	17.984	33.808	1.00	22.82
ATOM	9487	N	ASN	1305	3.401	17.215	35.229	1.00	17.25
ATOM	9488	CA	ASN	1305	2.786	17.800	36.406	1.00	17.82
ATOM	9489	CB	ASN	1305	2.562	16.745	37.491	1.00	33.52
ATOM	9490	CG	ASN	1305	1.315	15.921	37.256	1.00	35.54
ATOM	9491	OD1	ASN	1305	0.203	16.369	37.546	1.00	51.13
ATOM	9492	ND2	ASN	1305	1.492	14.702	36.753	1.00	38.28
ATOM	9493	C	ASN	1305	3.710	18.874	36.926	1.00	17.32
ATOM	9494	O	ASN	1305	4.849	18.599	37.304	1.00	28.92
ATOM	9495	N	LEU	1306	3.215	20.102	36.945	1.00	34.25
ATOM	9496	CA	LEU	1306	4.012	21.214	37.412	1.00	38.40
ATOM	9497	CB	LEU	1306	3.681	22.467	36.619	1.00	28.64
ATOM	9498	CG	LEU	1306	4.668	23.602	36.841	1.00	27.62
ATOM	9499	CD1	LEU	1306	6.105	23.105	36.703	1.00	24.44
ATOM	9500	CD2	LEU	1306	4.365	24.680	35.838	1.00	22.90
ATOM	9501	C	LEU	1306	3.858	21.476	38.896	1.00	36.92
ATOM	9502	O	LEU	1306	2.768	21.765	39.394	1.00	18.74
ATOM	9503	N	ILE	1307	4.975	21.349	39.594	1.00	17.16
ATOM	9504	CA	ILE	1307	5.030	21.582	41.028	1.00	14.02
ATOM	9505	CB	ILE	1307	5.706	20.392	41.781	1.00	7.11
ATOM	9506	CG2	ILE	1307	5.324	20.385	43.248	1.00	2.00
ATOM	9507	CG1	ILE	1307	5.255	19.070	41.184	1.00	7.41
ATOM	9508	CD1	ILE	1307	6.307	18.020	41.278	1.00	14.78
ATOM	9509	C	ILE	1307	5.891	22.837	41.187	1.00	14.26
ATOM	9510	O	ILE	1307	6.954	22.968	40.567	1.00	5.39
ATOM	9511	N	PHE	1308	5.401	23.769	41.994	1.00	8.78
ATOM	9512	CA	PHE	1308	6.096	25.017	42.256	1.00	7.74
ATOM	9513	CB	PHE	1308	5.107	26.179	42.164	1.00	14.88
ATOM	9514	CG	PHE	1308	4.725	26.554	40.762	1.00	22.57

ATOM	9515	CD1	PHE	1308	5.546	26.235	39.688	1.00	23.28
ATOM	9516	CD2	PHE	1308	3.560	27.274	40.519	1.00	34.73
ATOM	9517	CE1	PHE	1308	5.217	26.635	38.395	1.00	31.32
ATOM	9518	CE2	PHE	1308	3.224	27.678	39.228	1.00	28.00
ATOM	9519	CZ	PHE	1308	4.056	27.356	38.166	1.00	34.21
ATOM	9520	C	PHE	1308	6.758	25.019	43.634	1.00	12.29
ATOM	9521	O	PHE	1308	6.115	25.313	44.642	1.00	32.70
ATOM	9522	N	ALA	1309	8.036	24.665	43.684	1.00	25.47
ATOM	9523	CA	ALA	1309	8.764	24.660	44.949	1.00	31.23
ATOM	9524	CB	ALA	1309	9.915	23.685	44.877	1.00	50.21
ATOM	9525	C	ALA	1309	9.269	26.084	45.134	1.00	30.83
ATOM	9526	O	ALA	1309	10.364	26.429	44.696	1.00	44.14
ATOM	9527	N	VAL	1310	8.462	26.908	45.791	1.00	7.91
ATOM	9528	CA	VAL	1310	8.805	28.313	45.963	1.00	4.83
ATOM	9529	CB	VAL	1310	7.810	29.216	45.164	1.00	11.34
ATOM	9530	CG1	VAL	1310	7.805	28.829	43.682	1.00	18.79
ATOM	9531	CG2	VAL	1310	6.408	29.109	45.735	1.00	13.88
ATOM	9532	C	VAL	1310	8.918	28.833	47.395	1.00	2.22
ATOM	9533	O	VAL	1310	8.156	28.448	48.273	1.00	5.84
ATOM	9534	N	THR	1311	9.851	29.758	47.600	1.00	37.81
ATOM	9535	CA	THR	1311	10.093	30.366	48.908	1.00	38.53
ATOM	9536	CB	THR	1311	11.373	31.146	48.876	1.00	22.90
ATOM	9537	OG1	THR	1311	11.322	32.057	47.770	1.00	18.89
ATOM	9538	CG2	THR	1311	12.557	30.195	48.723	1.00	25.50
ATOM	9539	C	THR	1311	8.969	31.303	49.354	1.00	42.09
ATOM	9540	O	THR	1311	8.354	31.974	48.529	1.00	15.38
ATOM	9541	N	GLU	1312	8.793	31.407	50.672	1.00	25.46
ATOM	9542	CA	GLU	1312	7.740	32.209	51.320	1.00	34.39
ATOM	9543	CB	GLU	1312	8.049	32.387	52.814	1.00	91.81
ATOM	9544	CG	GLU	1312	6.989	33.169	53.609	1.00	100.00
ATOM	9545	CD	GLU	1312	5.647	32.450	53.715	1.00	100.00
ATOM	9546	OE1	GLU	1312	5.600	31.343	54.298	1.00	100.00
ATOM	9547	OE2	GLU	1312	4.635	33.003	53.232	1.00	100.00
ATOM	9548	C	GLU	1312	7.363	33.558	50.721	1.00	29.60
ATOM	9549	O	GLU	1312	6.184	33.821	50.462	1.00	67.55
ATOM	9550	N	ASN	1313	8.353	34.425	50.553	1.00	52.73
ATOM	9551	CA	ASN	1313	8.144	35.758	49.998	1.00	53.17
ATOM	9552	CB	ASN	1313	9.502	36.405	49.749	1.00	64.79
ATOM	9553	CG	ASN	1313	10.488	35.442	49.111	1.00	67.35
ATOM	9554	OD1	ASN	1313	10.866	34.432	49.708	1.00	73.85
ATOM	9555	ND2	ASN	1313	10.889	35.737	47.882	1.00	60.34
ATOM	9556	C	ASN	1313	7.318	35.756	48.706	1.00	51.57
ATOM	9557	O	ASN	1313	6.390	36.549	48.550	1.00	66.50
ATOM	9558	N	VAL	1314	7.603	34.804	47.826	1.00	29.64
ATOM	9559	CA	VAL	1314	6.924	34.711	46.545	1.00	31.89
ATOM	9560	CB	VAL	1314	7.996	34.635	45.422	1.00	37.95
ATOM	9561	CG1	VAL	1314	8.565	33.231	45.290	1.00	40.81
ATOM	9562	CG2	VAL	1314	7.452	35.143	44.131	1.00	47.31
ATOM	9563	C	VAL	1314	5.898	33.559	46.416	1.00	29.61
ATOM	9564	O	VAL	1314	5.478	33.219	45.304	1.00	33.07
ATOM	9565	N	VAL	1315	5.442	32.998	47.538	1.00	59.83
ATOM	9566	CA	VAL	1315	4.488	31.883	47.476	1.00	67.06
ATOM	9567	CB	VAL	1315	4.446	31.045	48.788	1.00	50.21
ATOM	9568	CG1	VAL	1315	3.827	31.830	49.922	1.00	45.84
ATOM	9569	CG2	VAL	1315	3.681	29.756	48.560	1.00	67.30
ATOM	9570	C	VAL	1315	3.073	32.252	47.041	1.00	66.82
ATOM	9571	O	VAL	1315	2.500	31.588	46.179	1.00	46.47

ATOM	9572	N	ASN	1316	2.507	33.304	47.623	1.00	46.32
ATOM	9573	CA	ASN	1316	1.162	33.727	47.249	1.00	52.93
ATOM	9574	CB	ASN	1316	0.750	34.968	48.024	1.00	40.03
ATOM	9575	CG	ASN	1316	0.146	34.639	49.351	1.00	48.50
ATOM	9576	OD1	ASN	1316	0.836	34.185	50.259	1.00	55.48
ATOM	9577	ND2	ASN	1316	-1.157	34.851	49.475	1.00	54.88
ATOM	9578	C	ASN	1316	1.105	34.029	45.766	1.00	48.71
ATOM	9579	O	ASN	1316	0.053	33.909	45.141	1.00	27.66
ATOM	9580	N	LEU	1317	2.251	34.418	45.215	1.00	23.14
ATOM	9581	CA	LEU	1317	2.362	34.739	43.806	1.00	20.25
ATOM	9582	CB	LEU	1317	3.751	35.300	43.502	1.00	29.47
ATOM	9583	CG	LEU	1317	4.016	35.534	42.012	1.00	27.87
ATOM	9584	CD1	LEU	1317	3.117	36.668	41.508	1.00	42.25
ATOM	9585	CD2	LEU	1317	5.479	35.837	41.764	1.00	12.20
ATOM	9586	C	LEU	1317	2.125	33.503	42.950	1.00	23.74
ATOM	9587	O	LEU	1317	1.143	33.425	42.205	1.00	44.50
ATOM	9588	N	TYR	1318	3.033	32.539	43.072	1.00	36.47
ATOM	9589	CA	TYR	1318	2.961	31.301	42.308	1.00	32.75
ATOM	9590	CB	TYR	1318	4.232	30.495	42.541	1.00	18.04
ATOM	9591	CG	TYR	1318	5.457	31.148	41.929	1.00	27.61
ATOM	9592	CD1	TYR	1318	6.235	32.053	42.659	1.00	23.13
ATOM	9593	CE1	TYR	1318	7.365	32.658	42.092	1.00	18.40
ATOM	9594	CD2	TYR	1318	5.841	30.864	40.611	1.00	28.35
ATOM	9595	CE2	TYR	1318	6.967	31.459	40.041	1.00	31.27
ATOM	9596	CZ	TYR	1318	7.722	32.354	40.786	1.00	24.57
ATOM	9597	OH	TYR	1318	8.836	32.937	40.229	1.00	37.00
ATOM	9598	C	TYR	1318	1.704	30.484	42.604	1.00	37.97
ATOM	9599	O	TYR	1318	1.432	29.477	41.952	1.00	29.69
ATOM	9600	N	GLN	1319	0.917	30.961	43.560	1.00	16.95
ATOM	9601	CA	GLN	1319	-0.318	30.316	43.939	1.00	14.85
ATOM	9602	CB	GLN	1319	-0.651	30.664	45.379	1.00	39.79
ATOM	9603	CG	GLN	1319	-1.477	29.623	46.073	1.00	56.14
ATOM	9604	CD	GLN	1319	-1.132	29.525	47.543	1.00	66.27
ATOM	9605	OE1	GLN	1319	-1.073	30.539	48.245	1.00	74.52
ATOM	9606	NE2	GLN	1319	-0.879	28.301	48.018	1.00	68.35
ATOM	9607	C	GLN	1319	-1.443	30.762	43.001	1.00	15.96
ATOM	9608	O	GLN	1319	-2.258	29.938	42.584	1.00	44.38
ATOM	9609	N	ASN	1320	-1.506	32.060	42.681	1.00	22.18
ATOM	9610	CA	ASN	1320	-2.550	32.544	41.767	1.00	19.66
ATOM	9611	CB	ASN	1320	-2.764	34.059	41.800	1.00	37.12
ATOM	9612	CG	ASN	1320	-2.363	34.681	43.093	1.00	49.06
ATOM	9613	OD1	ASN	1320	-1.384	35.419	43.134	1.00	60.31
ATOM	9614	ND2	ASN	1320	-3.111	34.425	44.156	1.00	59.83
ATOM	9615	C	ASN	1320	-2.135	32.151	40.364	1.00	20.91
ATOM	9616	O	ASN	1320	-2.960	32.118	39.448	1.00	28.58
ATOM	9617	N	TYR	1321	-0.839	31.937	40.171	1.00	8.94
ATOM	9618	CA	TYR	1321	-0.368	31.494	38.874	1.00	16.95
ATOM	9619	CB	TYR	1321	1.143	31.649	38.765	1.00	50.14
ATOM	9620	CG	TYR	1321	1.557	33.037	38.367	1.00	54.00
ATOM	9621	CD1	TYR	1321	0.605	34.019	38.087	1.00	59.06
ATOM	9622	CE1	TYR	1321	0.984	35.299	37.695	1.00	58.20
ATOM	9623	CD2	TYR	1321	2.898	33.372	38.252	1.00	60.38
ATOM	9624	CE2	TYR	1321	3.288	34.647	37.861	1.00	60.01
ATOM	9625	CZ	TYR	1321	2.329	35.600	37.586	1.00	55.14
ATOM	9626	OH	TYR	1321	2.729	36.841	37.176	1.00	32.69
ATOM	9627	C	TYR	1321	-0.782	30.033	38.778	1.00	18.06
ATOM	9628	O	TYR	1321	-1.070	29.530	37.691	1.00	42.42

ATOM	9629	N	SER	1322	-0.863	29.385	39.945	1.00	14.36
ATOM	9630	CA	SER	1322	-1.262	27.990	40.053	1.00	21.25
ATOM	9631	CB	SER	1322	-1.093	27.510	41.488	1.00	16.71
ATOM	9632	OG	SER	1322	-1.764	26.276	41.693	1.00	40.92
ATOM	9633	C	SER	1322	-2.719	27.843	39.654	1.00	19.34
ATOM	9634	O	SER	1322	-3.077	26.923	38.921	1.00	18.78
ATOM	9635	N	GLU	1323	-3.543	28.765	40.148	1.00	10.47
ATOM	9636	CA	GLU	1323	-4.985	28.790	39.891	1.00	18.74
ATOM	9637	CB	GLU	1323	-5.642	29.830	40.808	1.00	54.25
ATOM	9638	CG	GLU	1323	-7.152	29.919	40.688	1.00	74.01
ATOM	9639	CD	GLU	1323	-7.711	31.219	41.234	1.00	89.32
ATOM	9640	OE1	GLU	1323	-7.572	31.463	42.455	1.00	90.97
ATOM	9641	OE2	GLU	1323	-8.291	31.995	40.437	1.00	95.01
ATOM	9642	C	GLU	1323	-5.379	29.038	38.418	1.00	20.12
ATOM	9643	O	GLU	1323	-6.540	28.868	38.034	1.00	36.26
ATOM	9644	N	LEU	1324	-4.415	29.443	37.599	1.00	39.37
ATOM	9645	CA	LEU	1324	-4.681	29.705	36.185	1.00	45.83
ATOM	9646	CB	LEU	1324	-4.075	31.048	35.764	1.00	44.01
ATOM	9647	CG	LEU	1324	-4.874	32.298	36.146	1.00	41.11
ATOM	9648	CD1	LEU	1324	-4.012	33.535	36.000	1.00	57.25
ATOM	9649	CD2	LEU	1324	-6.124	32.392	35.283	1.00	39.21
ATOM	9650	C	LEU	1324	-4.141	28.583	35.315	1.00	44.24
ATOM	9651	O	LEU	1324	-4.346	28.547	34.101	1.00	49.96
ATOM	9652	N	ILE	1325	-3.460	27.657	35.965	1.00	27.16
ATOM	9653	CA	ILE	1325	-2.871	26.513	35.301	1.00	31.65
ATOM	9654	CB	ILE	1325	-1.340	26.637	35.293	1.00	35.02
ATOM	9655	CG2	ILE	1325	-0.721	25.439	34.604	1.00	32.74
ATOM	9656	CG1	ILE	1325	-0.921	27.953	34.635	1.00	36.76
ATOM	9657	CD1	ILE	1325	0.474	28.386	34.991	1.00	43.11
ATOM	9658	C	ILE	1325	-3.278	25.326	36.166	1.00	34.11
ATOM	9659	O	ILE	1325	-2.508	24.875	37.013	1.00	43.57
ATOM	9660	N	PRO	1326	-4.507	24.814	35.973	1.00	42.10
ATOM	9661	CD	PRO	1326	-5.444	25.173	34.896	1.00	36.57
ATOM	9662	CA	PRO	1326	-5.025	23.681	36.744	1.00	45.11
ATOM	9663	CB	PRO	1326	-6.345	23.382	36.044	1.00	40.20
ATOM	9664	CG	PRO	1326	-6.740	24.707	35.461	1.00	36.74
ATOM	9665	C	PRO	1326	-4.082	22.482	36.700	1.00	49.85
ATOM	9666	O	PRO	1326	-3.539	22.150	35.642	1.00	42.37
ATOM	9667	N	GLY	1327	-3.887	21.843	37.852	1.00	42.92
ATOM	9668	CA	GLY	1327	-2.994	20.698	37.919	1.00	46.20
ATOM	9669	C	GLY	1327	-1.633	21.117	38.443	1.00	44.34
ATOM	9670	O	GLY	1327	-0.713	20.300	38.599	1.00	60.55
ATOM	9671	N	THR	1328	-1.509	22.417	38.685	1.00	35.88
ATOM	9672	CA	THR	1328	-0.289	23.005	39.210	1.00	32.57
ATOM	9673	CB	THR	1328	-0.238	24.524	38.936	1.00	29.92
ATOM	9674	OG1	THR	1328	-0.109	24.749	37.532	1.00	24.57
ATOM	9675	CG2	THR	1328	0.934	25.157	39.631	1.00	41.17
ATOM	9676	C	THR	1328	-0.313	22.787	40.707	1.00	27.17
ATOM	9677	O	THR	1328	-1.362	22.922	41.339	1.00	27.73
ATOM	9678	N	THR	1329	0.833	22.411	41.264	1.00	29.41
ATOM	9679	CA	THR	1329	0.943	22.195	42.701	1.00	25.99
ATOM	9680	CB	THR	1329	1.430	20.746	43.051	1.00	24.49
ATOM	9681	OG1	THR	1329	1.075	19.829	42.001	1.00	24.10
ATOM	9682	CG2	THR	1329	0.808	20.273	44.370	1.00	2.00
ATOM	9683	C	THR	1329	1.972	23.196	43.231	1.00	29.54
ATOM	9684	O	THR	1329	3.049	23.349	42.657	1.00	42.38
ATOM	9685	N	VAL	1330	1.608	23.926	44.277	1.00	19.94

ATOM	9686	CA	VAL	1330	2.523	24.884	44.885	1.00	15.36
ATOM	9687	CB	VAL	1330	1.875	26.269	45.084	1.00	34.70
ATOM	9688	CG1	VAL	1330	2.163	27.146	43.891	1.00	25.91
ATOM	9689	CG2	VAL	1330	0.367	26.134	45.305	1.00	39.94
ATOM	9690	C	VAL	1330	2.964	24.351	46.240	1.00	21.61
ATOM	9691	O	VAL	1330	2.155	23.795	46.978	1.00	36.41
ATOM	9692	N	GLY	1331	4.243	24.518	46.564	1.00	36.57
ATOM	9693	CA	GLY	1331	4.756	24.045	47.840	1.00	39.15
ATOM	9694	C	GLY	1331	5.798	24.985	48.406	1.00	40.07
ATOM	9695	O	GLY	1331	6.728	25.375	47.695	1.00	31.76
ATOM	9696	N	VAL	1332	5.668	25.311	49.691	1.00	4.31
ATOM	9697	CA	VAL	1332	6.594	26.233	50.363	1.00	7.61
ATOM	9698	CB	VAL	1332	6.079	26.665	51.748	1.00	17.74
ATOM	9699	CG1	VAL	1332	6.869	27.864	52.245	1.00	18.65
ATOM	9700	CG2	VAL	1332	4.605	26.972	51.690	1.00	32.48
ATOM	9701	C	VAL	1332	8.045	25.757	50.538	1.00	8.02
ATOM	9702	O	VAL	1332	8.394	25.126	51.541	1.00	23.64
ATOM	9703	N	LEU	1333	8.894	26.112	49.580	1.00	37.63
ATOM	9704	CA	LEU	1333	10.302	25.754	49.626	1.00	42.26
ATOM	9705	CB	LEU	1333	10.957	26.134	48.297	1.00	26.06
ATOM	9706	CG	LEU	1333	12.401	25.698	48.065	1.00	27.36
ATOM	9707	CD1	LEU	1333	12.518	24.212	48.229	1.00	27.29
ATOM	9708	CD2	LEU	1333	12.825	26.101	46.675	1.00	31.42
ATOM	9709	C	LEU	1333	10.976	26.484	50.804	1.00	42.58
ATOM	9710	O	LEU	1333	10.488	27.523	51.265	1.00	31.20
ATOM	9711	N	SER	1334	12.065	25.918	51.319	1.00	35.84
ATOM	9712	CA	SER	1334	12.786	26.524	52.433	1.00	53.18
ATOM	9713	CB	SER	1334	13.422	25.435	53.291	1.00	75.99
ATOM	9714	OG	SER	1334	14.066	25.993	54.416	1.00	88.50
ATOM	9715	C	SER	1334	13.862	27.480	51.919	1.00	60.92
ATOM	9716	O	SER	1334	14.204	27.469	50.729	1.00	82.62
ATOM	9717	N	MET	1335	14.402	28.295	52.822	1.00	100.00
ATOM	9718	CA	MET	1335	15.438	29.264	52.469	1.00	100.00
ATOM	9719	CB	MET	1335	15.767	30.164	53.661	1.00	95.28
ATOM	9720	CG	MET	1335	14.594	31.020	54.124	1.00	100.00
ATOM	9721	SD	MET	1335	13.698	31.832	52.754	1.00	100.00
ATOM	9722	CE	MET	1335	14.975	32.944	52.090	1.00	100.00
ATOM	9723	C	MET	1335	16.707	28.614	51.934	1.00	100.00
ATOM	9724	O	MET	1335	17.315	29.127	51.001	1.00	86.16
ATOM	9725	N	ASP	1336	17.102	27.502	52.551	1.00	100.00
ATOM	9726	CA	ASP	1336	18.281	26.731	52.159	1.00	99.03
ATOM	9727	CB	ASP	1336	19.032	26.256	53.392	1.00	75.77
ATOM	9728	CG	ASP	1336	18.103	25.724	54.456	1.00	79.39
ATOM	9729	OD1	ASP	1336	17.593	24.599	54.284	1.00	80.79
ATOM	9730	OD2	ASP	1336	17.860	26.443	55.448	1.00	81.58
ATOM	9731	C	ASP	1336	17.863	25.539	51.294	1.00	94.51
ATOM	9732	O	ASP	1336	18.699	24.735	50.874	1.00	66.22
ATOM	9733	N	SER	1337	16.575	25.519	50.948	1.00	62.67
ATOM	9734	CA	SER	1337	15.975	24.494	50.100	1.00	59.45
ATOM	9735	CB	SER	1337	16.321	24.763	48.622	1.00	53.28
ATOM	9736	OG	SER	1337	15.404	24.168	47.719	1.00	50.82
ATOM	9737	C	SER	1337	16.378	23.081	50.510	1.00	54.91
ATOM	9738	O	SER	1337	16.794	22.275	49.682	1.00	47.92
ATOM	9739	N	SER	1338	16.339	22.811	51.807	1.00	72.70
ATOM	9740	CA	SER	1338	16.654	21.474	52.292	1.00	73.35
ATOM	9741	CB	SER	1338	17.218	21.542	53.708	1.00	82.20
ATOM	9742	OG	SER	1338	16.350	22.264	54.564	1.00	81.14

ATOM	9743	C	SER	1338	15.325	20.721	52.290	1.00	75.51
ATOM	9744	O	SER	1338	15.273	19.493	52.168	1.00	91.78
ATOM	9745	N	ASN	1339	14.262	21.518	52.370	1.00	96.97
ATOM	9746	CA	ASN	1339	12.863	21.097	52.401	1.00	91.10
ATOM	9747	CB	ASN	1339	12.016	22.361	52.619	1.00	40.30
ATOM	9748	CG	ASN	1339	10.573	22.065	52.977	1.00	52.89
ATOM	9749	OD1	ASN	1339	10.110	20.930	52.881	1.00	64.61
ATOM	9750	ND2	ASN	1339	9.851	23.100	53.399	1.00	63.93
ATOM	9751	C	ASN	1339	12.383	20.347	51.141	1.00	84.15
ATOM	9752	O	ASN	1339	11.425	19.567	51.198	1.00	17.00
ATOM	9753	N	VAL	1340	13.055	20.579	50.016	1.00	50.04
ATOM	9754	CA	VAL	1340	12.691	19.961	48.744	1.00	50.36
ATOM	9755	CB	VAL	1340	13.561	20.537	47.585	1.00	24.23
ATOM	9756	CG1	VAL	1340	15.032	20.232	47.802	1.00	34.43
ATOM	9757	CG2	VAL	1340	13.090	20.020	46.242	1.00	22.17
ATOM	9758	C	VAL	1340	12.757	18.433	48.787	1.00	54.92
ATOM	9759	O	VAL	1340	13.796	17.830	48.510	1.00	37.90
ATOM	9760	N	LEU	1341	11.636	17.815	49.147	1.00	43.96
ATOM	9761	CA	LEU	1341	11.544	16.358	49.243	1.00	46.33
ATOM	9762	CB	LEU	1341	12.699	15.777	50.052	1.00	59.14
ATOM	9763	CG	LEU	1341	12.593	14.264	50.146	1.00	62.14
ATOM	9764	CD1	LEU	1341	12.615	13.677	48.755	1.00	59.86
ATOM	9765	CD2	LEU	1341	13.726	13.734	50.976	1.00	59.66
ATOM	9766	C	LEU	1341	10.256	16.034	49.952	1.00	43.54
ATOM	9767	O	LEU	1341	9.362	15.425	49.383	1.00	53.98
ATOM	9768	N	GLN	1342	10.177	16.430	51.218	1.00	30.65
ATOM	9769	CA	GLN	1342	8.967	16.232	51.996	1.00	32.41
ATOM	9770	CB	GLN	1342	9.226	16.511	53.474	1.00	94.73
ATOM	9771	CG	GLN	1342	10.065	15.431	54.115	1.00	100.00
ATOM	9772	CD	GLN	1342	9.526	14.047	53.793	1.00	100.00
ATOM	9773	OE1	GLN	1342	8.374	13.735	54.101	1.00	100.00
ATOM	9774	NE2	GLN	1342	10.343	13.226	53.136	1.00	100.00
ATOM	9775	C	GLN	1342	7.975	17.219	51.421	1.00	29.36
ATOM	9776	O	GLN	1342	6.938	17.504	52.012	1.00	89.12
ATOM	9777	N	LEU	1343	8.357	17.753	50.264	1.00	55.72
ATOM	9778	CA	LEU	1343	7.601	18.705	49.483	1.00	55.57
ATOM	9779	CB	LEU	1343	8.492	19.900	49.156	1.00	44.43
ATOM	9780	CG	LEU	1343	7.766	21.232	48.976	1.00	52.34
ATOM	9781	CD1	LEU	1343	7.005	21.594	50.261	1.00	59.04
ATOM	9782	CD2	LEU	1343	8.772	22.318	48.617	1.00	50.91
ATOM	9783	C	LEU	1343	7.261	17.948	48.205	1.00	51.03
ATOM	9784	O	LEU	1343	6.103	17.914	47.773	1.00	36.78
ATOM	9785	N	ILE	1344	8.288	17.334	47.617	1.00	26.19
ATOM	9786	CA	ILE	1344	8.128	16.541	46.400	1.00	21.66
ATOM	9787	CB	ILE	1344	9.477	16.056	45.858	1.00	9.13
ATOM	9788	CG2	ILE	1344	9.247	15.150	44.645	1.00	2.00
ATOM	9789	CG1	ILE	1344	10.375	17.256	45.531	1.00	12.01
ATOM	9790	CD1	ILE	1344	11.770	16.878	45.063	1.00	18.31
ATOM	9791	C	ILE	1344	7.293	15.318	46.745	1.00	28.38
ATOM	9792	O	ILE	1344	6.232	15.094	46.170	1.00	26.48
ATOM	9793	N	VAL	1345	7.822	14.507	47.656	1.00	26.91
ATOM	9794	CA	VAL	1345	7.154	13.313	48.157	1.00	27.43
ATOM	9795	CB	VAL	1345	8.126	12.476	49.011	1.00	59.90
ATOM	9796	CG1	VAL	1345	7.457	11.192	49.474	1.00	66.61
ATOM	9797	CG2	VAL	1345	9.400	12.183	48.218	1.00	62.07
ATOM	9798	C	VAL	1345	6.088	13.922	49.047	1.00	24.20
ATOM	9799	O	VAL	1345	6.250	14.028	50.261	1.00	53.99

ATOM	9800	N	ASP	1346	5.025	14.373	48.401	1.00	14.94
ATOM	9801	CA	ASP	1346	3.922	15.063	49.054	1.00	24.18
ATOM	9802	CB	ASP	1346	4.446	16.360	49.681	1.00	51.23
ATOM	9803	CG	ASP	1346	4.312	16.390	51.180	1.00	59.29
ATOM	9804	OD1	ASP	1346	4.352	15.321	51.822	1.00	72.69
ATOM	9805	OD2	ASP	1346	4.186	17.504	51.722	1.00	61.11
ATOM	9806	C	ASP	1346	2.974	15.443	47.920	1.00	28.88
ATOM	9807	O	ASP	1346	1.794	15.086	47.923	1.00	63.19
ATOM	9808	N	ALA	1347	3.520	16.208	46.973	1.00	14.34
ATOM	9809	CA	ALA	1347	2.812	16.664	45.790	1.00	9.26
ATOM	9810	CB	ALA	1347	3.700	17.597	44.993	1.00	70.16
ATOM	9811	C	ALA	1347	2.414	15.461	44.945	1.00	11.41
ATOM	9812	O	ALA	1347	1.407	15.500	44.243	1.00	61.23
ATOM	9813	N	TYR	1348	3.217	14.396	45.022	1.00	52.14
ATOM	9814	CA	TYR	1348	2.949	13.154	44.299	1.00	44.24
ATOM	9815	CB	TYR	1348	4.019	12.104	44.595	1.00	47.50
ATOM	9816	CG	TYR	1348	3.866	10.841	43.770	1.00	47.99
ATOM	9817	CD1	TYR	1348	3.960	10.882	42.378	1.00	49.38
ATOM	9818	CE1	TYR	1348	3.817	9.728	41.608	1.00	54.03
ATOM	9819	CD2	TYR	1348	3.623	9.604	44.377	1.00	52.17
ATOM	9820	CE2	TYR	1348	3.478	8.439	43.612	1.00	55.71
ATOM	9821	CZ	TYR	1348	3.577	8.512	42.226	1.00	55.70
ATOM	9822	OH	TYR	1348	3.435	7.378	41.451	1.00	58.86
ATOM	9823	C	TYR	1348	1.609	12.635	44.783	1.00	36.71
ATOM	9824	O	TYR	1348	0.777	12.203	43.991	1.00	36.89
ATOM	9825	N	GLY	1349	1.411	12.690	46.096	1.00	13.34
ATOM	9826	CA	GLY	1349	0.157	12.251	46.680	1.00	16.13
ATOM	9827	C	GLY	1349	-1.017	13.088	46.208	1.00	19.55
ATOM	9828	O	GLY	1349	-2.113	12.565	46.009	1.00	77.52
ATOM	9829	N	LYS	1350	-0.784	14.386	46.020	1.00	14.82
ATOM	9830	CA	LYS	1350	-1.818	15.305	45.556	1.00	18.42
ATOM	9831	CB	LYS	1350	-1.330	16.747	45.676	1.00	55.90
ATOM	9832	CG	LYS	1350	-0.618	17.033	46.984	1.00	72.60
ATOM	9833	CD	LYS	1350	-0.604	18.514	47.338	1.00	79.74
ATOM	9834	CE	LYS	1350	-1.962	18.972	47.864	1.00	81.83
ATOM	9835	NZ	LYS	1350	-1.921	20.371	48.374	1.00	85.98
ATOM	9836	C	LYS	1350	-2.204	14.987	44.105	1.00	17.66
ATOM	9837	O	LYS	1350	-3.388	14.927	43.770	1.00	41.93
ATOM	9838	N	ILE	1351	-1.203	14.762	43.255	1.00	16.57
ATOM	9839	CA	ILE	1351	-1.433	14.430	41.850	1.00	24.49
ATOM	9840	CB	ILE	1351	-0.101	14.177	41.105	1.00	85.14
ATOM	9841	CG2	ILE	1351	-0.371	13.856	39.637	1.00	90.60
ATOM	9842	CG1	ILE	1351	0.827	15.384	41.230	1.00	86.64
ATOM	9843	CD1	ILE	1351	2.232	15.114	40.739	1.00	97.06
ATOM	9844	C	ILE	1351	-2.254	13.143	41.755	1.00	30.28
ATOM	9845	O	ILE	1351	-3.223	13.059	40.993	1.00	91.95
ATOM	9846	N	ARG	1352	-1.853	12.146	42.543	1.00	53.40
ATOM	9847	CA	ARG	1352	-2.504	10.840	42.563	1.00	46.98
ATOM	9848	CB	ARG	1352	-1.484	9.760	42.906	1.00	56.06
ATOM	9849	CG	ARG	1352	-0.263	9.779	42.013	1.00	59.88
ATOM	9850	CD	ARG	1352	0.264	8.380	41.810	1.00	63.98
ATOM	9851	NE	ARG	1352	-0.639	7.595	40.973	1.00	72.71
ATOM	9852	CZ	ARG	1352	-0.380	6.372	40.523	1.00	76.36
ATOM	9853	NH1	ARG	1352	0.764	5.770	40.834	1.00	74.75
ATOM	9854	NH2	ARG	1352	-1.252	5.769	39.726	1.00	84.45
ATOM	9855	C	ARG	1352	-3.696	10.738	43.504	1.00	48.04
ATOM	9856	O	ARG	1352	-3.986	9.667	44.028	1.00	65.42

ATOM	9857	N	SER	1353	-4.390	11.850	43.707	1.00	51.43
ATOM	9858	CA	SER	1353	-5.554	11.869	44.582	1.00	55.65
ATOM	9859	CB	SER	1353	-5.235	12.576	45.908	1.00	28.58
ATOM	9860	OG	SER	1353	-4.873	13.934	45.722	1.00	27.30
ATOM	9861	C	SER	1353	-6.754	12.514	43.888	1.00	61.19
ATOM	9862	O	SER	1353	-7.686	12.993	44.540	1.00	47.38
ATOM	9863	N	LYS	1354	-6.714	12.533	42.559	1.00	19.48
ATOM	9864	CA	LYS	1354	-7.801	13.093	41.760	1.00	21.53
ATOM	9865	CB	LYS	1354	-7.781	14.634	41.776	1.00	81.73
ATOM	9866	CG	LYS	1354	-6.424	15.286	41.500	1.00	91.61
ATOM	9867	CD	LYS	1354	-6.077	15.344	40.011	1.00	90.94
ATOM	9868	CE	LYS	1354	-4.676	15.906	39.786	1.00	79.94
ATOM	9869	NZ	LYS	1354	-4.338	16.002	38.342	1.00	81.98
ATOM	9870	C	LYS	1354	-7.812	12.547	40.328	1.00	21.74
ATOM	9871	O	LYS	1354	-6.761	12.342	39.713	1.00	80.11
ATOM	9872	N	VAL	1355	-9.010	12.231	39.846	1.00	27.20
ATOM	9873	CA	VAL	1355	-9.185	11.731	38.491	1.00	31.65
ATOM	9874	CB	VAL	1355	-9.890	10.345	38.454	1.00	61.93
ATOM	9875	CG1	VAL	1355	-10.094	9.878	37.014	1.00	58.23
ATOM	9876	CG2	VAL	1355	-9.058	9.322	39.197	1.00	69.41
ATOM	9877	C	VAL	1355	-10.007	12.772	37.742	1.00	34.03
ATOM	9878	O	VAL	1355	-11.228	12.851	37.879	1.00	69.50
ATOM	9879	N	GLU	1356	-9.292	13.639	37.039	1.00	50.53
ATOM	9880	CA	GLU	1356	-9.900	14.692	36.250	1.00	45.40
ATOM	9881	CB	GLU	1356	-8.992	15.928	36.266	1.00	79.10
ATOM	9882	CG	GLU	1356	-9.572	17.177	35.613	1.00	87.02
ATOM	9883	CD	GLU	1356	-10.388	18.015	36.574	1.00	89.82
ATOM	9884	OE1	GLU	1356	-11.396	18.607	36.129	1.00	89.27
ATOM	9885	OE2	GLU	1356	-10.014	18.087	37.768	1.00	89.82
ATOM	9886	C	GLU	1356	-10.007	14.131	34.834	1.00	35.69
ATOM	9887	O	GLU	1356	-9.059	13.540	34.325	1.00	64.02
ATOM	9888	N	LEU	1357	-11.160	14.298	34.203	1.00	44.26
ATOM	9889	CA	LEU	1357	-11.350	13.792	32.852	1.00	40.27
ATOM	9890	CB	LEU	1357	-12.726	13.134	32.754	1.00	35.21
ATOM	9891	CG	LEU	1357	-12.838	11.706	32.228	1.00	34.89
ATOM	9892	CD1	LEU	1357	-11.950	10.754	33.016	1.00	23.41
ATOM	9893	CD2	LEU	1357	-14.294	11.300	32.316	1.00	23.71
ATOM	9894	C	LEU	1357	-11.218	14.920	31.820	1.00	42.57
ATOM	9895	O	LEU	1357	-11.929	15.931	31.892	1.00	36.54
ATOM	9896	N	GLU	1358	-10.281	14.762	30.886	1.00	35.93
ATOM	9897	CA	GLU	1358	-10.063	15.760	29.838	1.00	36.65
ATOM	9898	CB	GLU	1358	-8.600	16.231	29.809	1.00	40.52
ATOM	9899	CG	GLU	1358	-7.562	15.134	29.592	1.00	59.98
ATOM	9900	CD	GLU	1358	-6.140	15.673	29.488	1.00	74.80
ATOM	9901	OE1	GLU	1358	-5.186	14.962	29.885	1.00	74.80
ATOM	9902	OE2	GLU	1358	-5.974	16.809	29.002	1.00	74.80
ATOM	9903	C	GLU	1358	-10.486	15.219	28.476	1.00	29.40
ATOM	9904	O	GLU	1358	-10.389	14.024	28.222	1.00	16.13
ATOM	9905	N	VAL	1359	-10.943	16.109	27.601	1.00	71.64
ATOM	9906	CA	VAL	1359	-11.400	15.715	26.271	1.00	64.33
ATOM	9907	CB	VAL	1359	-12.886	16.098	26.056	1.00	14.71
ATOM	9908	CG1	VAL	1359	-13.332	15.708	24.670	1.00	2.00
ATOM	9909	CG2	VAL	1359	-13.765	15.456	27.105	1.00	11.74
ATOM	9910	C	VAL	1359	-10.598	16.325	25.121	1.00	66.02
ATOM	9911	O	VAL	1359	-10.728	17.510	24.826	1.00	21.61
ATOM	9912	N	ARG	1360	-9.772	15.515	24.470	1.00	6.08
ATOM	9913	CA	ARG	1360	-9.011	15.997	23.326	1.00	14.62

ATOM	9914	CB	ARG	1360	-7.731	15.171	23.157	1.00	45.39
ATOM	9915	CG	ARG	1360	-6.621	15.888	22.399	1.00	63.68
ATOM	9916	CD	ARG	1360	-5.779	16.748	23.326	1.00	71.04
ATOM	9917	NE	ARG	1360	-4.723	15.978	23.988	1.00	77.08
ATOM	9918	CZ	ARG	1360	-4.739	15.597	25.263	1.00	78.00
ATOM	9919	NH1	ARG	1360	-5.768	15.901	26.041	1.00	82.87
ATOM	9920	NH2	ARG	1360	-3.698	14.953	25.774	1.00	69.66
ATOM	9921	C	ARG	1360	-9.920	15.872	22.074	1.00	15.07
ATOM	9922	O	ARG	1360	-10.596	14.852	21.883	1.00	36.01
ATOM	9923	N	ASP	1361	-9.960	16.918	21.250	1.00	78.80
ATOM	9924	CA	ASP	1361	-10.787	16.940	20.036	1.00	79.60
ATOM	9925	CB	ASP	1361	-10.417	15.788	19.098	1.00	52.64
ATOM	9926	CG	ASP	1361	-9.018	15.931	18.537	1.00	70.30
ATOM	9927	OD1	ASP	1361	-8.057	15.538	19.230	1.00	78.55
ATOM	9928	OD2	ASP	1361	-8.869	16.453	17.411	1.00	80.41
ATOM	9929	C	ASP	1361	-12.295	16.944	20.320	1.00	83.81
ATOM	9930	O	ASP	1361	-12.752	17.674	21.214	1.00	62.23
ATOM	9931	N	LEU	1362	-13.051	16.167	19.533	1.00	20.38
ATOM	9932	CA	LEU	1362	-14.513	16.043	19.653	1.00	19.68
ATOM	9933	CB	LEU	1362	-14.998	16.246	21.098	1.00	9.59
ATOM	9934	CG	LEU	1362	-16.487	16.469	21.394	1.00	13.39
ATOM	9935	CD1	LEU	1362	-17.371	15.368	20.838	1.00	18.39
ATOM	9936	CD2	LEU	1362	-16.667	16.572	22.895	1.00	18.28
ATOM	9937	C	LEU	1362	-15.318	16.944	18.736	1.00	21.96
ATOM	9938	O	LEU	1362	-15.286	18.161	18.871	1.00	27.40
ATOM	9939	N	PRO	1363	-16.075	16.349	17.799	1.00	58.51
ATOM	9940	CD	PRO	1363	-16.046	14.926	17.415	1.00	42.72
ATOM	9941	CA	PRO	1363	-16.896	17.125	16.866	1.00	61.63
ATOM	9942	CB	PRO	1363	-17.556	16.039	16.018	1.00	44.41
ATOM	9943	CG	PRO	1363	-16.499	14.969	15.981	1.00	37.69
ATOM	9944	C	PRO	1363	-17.926	17.990	17.589	1.00	63.34
ATOM	9945	O	PRO	1363	-18.591	17.538	18.526	1.00	44.40
ATOM	9946	N	GLU	1364	-18.015	19.246	17.160	1.00	66.86
ATOM	9947	CA	GLU	1364	-18.932	20.241	17.720	1.00	72.45
ATOM	9948	CB	GLU	1364	-18.768	21.569	16.970	1.00	88.30
ATOM	9949	CG	GLU	1364	-19.174	21.522	15.489	1.00	96.48
ATOM	9950	CD	GLU	1364	-18.424	20.460	14.690	1.00	96.77
ATOM	9951	OE1	GLU	1364	-19.029	19.414	14.360	1.00	96.77
ATOM	9952	OE2	GLU	1364	-17.225	20.667	14.403	1.00	96.77
ATOM	9953	C	GLU	1364	-20.391	19.807	17.658	1.00	69.30
ATOM	9954	O	GLU	1364	-21.203	20.202	18.497	1.00	70.46
ATOM	9955	N	GLU	1365	-20.705	18.995	16.652	1.00	51.58
ATOM	9956	CA	GLU	1365	-22.051	18.486	16.419	1.00	50.09
ATOM	9957	CB	GLU	1365	-22.056	17.612	15.166	1.00	65.75
ATOM	9958	CG	GLU	1365	-23.025	18.084	14.093	1.00	78.64
ATOM	9959	CD	GLU	1365	-24.473	18.100	14.567	1.00	83.46
ATOM	9960	OE1	GLU	1365	-25.049	19.205	14.708	1.00	83.68
ATOM	9961	OE2	GLU	1365	-25.033	17.007	14.798	1.00	73.03
ATOM	9962	C	GLU	1365	-22.633	17.706	17.595	1.00	49.07
ATOM	9963	O	GLU	1365	-23.830	17.807	17.897	1.00	58.90
ATOM	9964	N	LEU	1366	-21.778	16.930	18.254	1.00	27.71
ATOM	9965	CA	LEU	1366	-22.197	16.129	19.393	1.00	26.68
ATOM	9966	CB	LEU	1366	-21.826	14.646	19.199	1.00	26.16
ATOM	9967	CG	LEU	1366	-20.375	14.145	19.314	1.00	25.97
ATOM	9968	CD1	LEU	1366	-20.351	12.635	19.328	1.00	18.83
ATOM	9969	CD2	LEU	1366	-19.520	14.657	18.187	1.00	29.47
ATOM	9970	C	LEU	1366	-21.642	16.632	20.718	1.00	25.18

ATOM	9971	O	LEU	1366	-20.570	17.258	20.768	1.00	25.50
ATOM	9972	N	SER	1367	-22.387	16.340	21.785	1.00	23.83
ATOM	9973	CA	SER	1367	-21.997	16.739	23.130	1.00	31.08
ATOM	9974	CB	SER	1367	-22.846	17.917	23.621	1.00	86.00
ATOM	9975	OG	SER	1367	-22.264	18.536	24.763	1.00	93.48
ATOM	9976	C	SER	1367	-22.073	15.589	24.133	1.00	27.14
ATOM	9977	O	SER	1367	-22.963	14.738	24.072	1.00	67.12
ATOM	9978	N	LEU	1368	-21.127	15.604	25.067	1.00	36.55
ATOM	9979	CA	LEU	1368	-21.012	14.598	26.112	1.00	32.03
ATOM	9980	CB	LEU	1368	-19.540	14.233	26.326	1.00	17.71
ATOM	9981	CG	LEU	1368	-18.822	13.288	25.351	1.00	6.66
ATOM	9982	CD1	LEU	1368	-19.360	13.374	23.916	1.00	2.38
ATOM	9983	CD2	LEU	1368	-17.326	13.598	25.418	1.00	9.90
ATOM	9984	C	LEU	1368	-21.588	15.092	27.420	1.00	31.55
ATOM	9985	O	LEU	1368	-21.606	16.288	27.682	1.00	34.46
ATOM	9986	N	SER	1369	-22.033	14.148	28.242	1.00	28.54
ATOM	9987	CA	SER	1369	-22.609	14.428	29.556	1.00	30.68
ATOM	9988	CB	SER	1369	-24.133	14.272	29.526	1.00	59.23
ATOM	9989	OG	SER	1369	-24.722	15.114	28.549	1.00	69.29
ATOM	9990	C	SER	1369	-21.998	13.397	30.497	1.00	29.98
ATOM	9991	O	SER	1369	-21.989	12.204	30.190	1.00	60.07
ATOM	9992	N	PHE	1370	-21.505	13.858	31.645	1.00	14.08
ATOM	9993	CA	PHE	1370	-20.846	12.979	32.613	1.00	15.87
ATOM	9994	CB	PHE	1370	-19.379	13.400	32.794	1.00	38.94
ATOM	9995	CG	PHE	1370	-18.633	13.621	31.497	1.00	43.13
ATOM	9996	CD1	PHE	1370	-18.964	14.684	30.656	1.00	39.91
ATOM	9997	CD2	PHE	1370	-17.595	12.775	31.125	1.00	44.52
ATOM	9998	CE1	PHE	1370	-18.282	14.898	29.464	1.00	38.44
ATOM	9999	CE2	PHE	1370	-16.902	12.980	29.932	1.00	46.96
ATOM	10000	CZ	PHE	1370	-17.247	14.047	29.100	1.00	44.35
ATOM	10001	C	PHE	1370	-21.510	12.902	33.981	1.00	18.52
ATOM	10002	O	PHE	1370	-22.129	13.855	34.447	1.00	39.26
ATOM	10003	N	ASN	1371	-21.371	11.739	34.607	1.00	33.45
ATOM	10004	CA	ASN	1371	-21.905	11.457	35.938	1.00	40.88
ATOM	10005	CB	ASN	1371	-23.213	10.652	35.868	1.00	58.35
ATOM	10006	CG	ASN	1371	-24.368	11.448	35.276	1.00	56.92
ATOM	10007	OD1	ASN	1371	-24.508	12.641	35.543	1.00	70.56
ATOM	10008	ND2	ASN	1371	-25.199	10.786	34.473	1.00	67.25
ATOM	10009	C	ASN	1371	-20.817	10.620	36.591	1.00	43.14
ATOM	10010	O	ASN	1371	-20.572	9.477	36.199	1.00	71.87
ATOM	10011	N	ALA	1372	-20.120	11.221	37.545	1.00	41.91
ATOM	10012	CA	ALA	1372	-19.033	10.543	38.230	1.00	40.21
ATOM	10013	CB	ALA	1372	-17.947	11.541	38.572	1.00	97.74
ATOM	10014	C	ALA	1372	-19.496	9.847	39.491	1.00	44.62
ATOM	10015	O	ALA	1372	-20.134	10.464	40.338	1.00	97.28
ATOM	10016	N	THR	1373	-19.194	8.559	39.611	1.00	46.33
ATOM	10017	CA	THR	1373	-19.551	7.813	40.817	1.00	47.89
ATOM	10018	CB	THR	1373	-20.439	6.569	40.500	1.00	40.45
ATOM	10019	OG1	THR	1373	-19.659	5.376	40.575	1.00	39.65
ATOM	10020	CG2	THR	1373	-21.039	6.659	39.103	1.00	41.32
ATOM	10021	C	THR	1373	-18.199	7.416	41.431	1.00	45.51
ATOM	10022	O	THR	1373	-17.366	6.811	40.752	1.00	32.42
ATOM	10023	N	CYS	1374	-17.945	7.811	42.679	1.00	52.28
ATOM	10024	CA	CYS	1374	-16.658	7.498	43.296	1.00	57.46
ATOM	10025	C	CYS	1374	-16.635	6.834	44.652	1.00	64.96
ATOM	10026	O	CYS	1374	-15.834	5.925	44.888	1.00	97.09
ATOM	10027	CB	CYS	1374	-15.779	8.734	43.311	1.00	88.14

ATOM	10028	SG	CYS	1374	-15.294	9.094	41.609	1.00100.00
ATOM	10029	N	LEU	1375	-17.480	7.304	45.559	1.00 91.00
ATOM	10030	CA	LEU	1375	-17.518	6.715	46.880	1.00 91.73
ATOM	10031	CB	LEU	1375	-17.503	7.787	47.966	1.00 91.09
ATOM	10032	CG	LEU	1375	-16.350	7.654	48.968	1.00 96.21
ATOM	10033	CD1	LEU	1375	-16.446	8.755	50.011	1.00100.00
ATOM	10034	CD2	LEU	1375	-16.353	6.279	49.639	1.00 94.93
ATOM	10035	C	LEU	1375	-18.714	5.808	47.062	1.00 92.87
ATOM	10036	O	LEU	1375	-19.860	6.228	46.888	1.00100.00
ATOM	10037	N	ASN	1376	-18.416	4.549	47.372	1.00100.00
ATOM	10038	CA	ASN	1376	-19.416	3.520	47.623	1.00 97.02
ATOM	10039	CB	ASN	1376	-19.884	3.600	49.078	1.00 81.08
ATOM	10040	CG	ASN	1376	-18.728	3.701	50.054	1.00 84.89
ATOM	10041	OD1	ASN	1376	-17.733	2.979	49.942	1.00 84.82
ATOM	10042	ND2	ASN	1376	-18.842	4.620	51.003	1.00 84.89
ATOM	10043	C	ASN	1376	-20.603	3.613	46.677	1.00 94.34
ATOM	10044	O	ASN	1376	-21.761	3.589	47.103	1.00 80.27
ATOM	10045	N	ASN	1377	-20.294	3.738	45.390	1.00 65.14
ATOM	10046	CA	ASN	1377	-21.293	3.835	44.325	1.00 68.84
ATOM	10047	CB	ASN	1377	-21.637	2.439	43.775	1.00 88.61
ATOM	10048	CG	ASN	1377	-21.819	1.405	44.866	1.00 89.89
ATOM	10049	OD1	ASN	1377	-22.939	1.141	45.308	1.00 93.73
ATOM	10050	ND2	ASN	1377	-20.711	0.822	45.317	1.00 93.00
ATOM	10051	C	ASN	1377	-22.568	4.638	44.623	1.00 66.39
ATOM	10052	O	ASN	1377	-23.685	4.163	44.387	1.00 76.34
ATOM	10053	N	GLU	1378	-22.392	5.865	45.114	1.00 92.90
ATOM	10054	CA	GLU	1378	-23.531	6.722	45.422	1.00 95.17
ATOM	10055	CB	GLU	1378	-23.313	7.498	46.720	1.00 93.53
ATOM	10056	CG	GLU	1378	-24.586	8.168	47.221	1.00100.00
ATOM	10057	CD	GLU	1378	-24.369	9.015	48.452	1.00100.00
ATOM	10058	OE1	GLU	1378	-24.820	10.182	48.454	1.00100.00
ATOM	10059	OE2	GLU	1378	-23.760	8.510	49.420	1.00100.00
ATOM	10060	C	GLU	1378	-23.838	7.684	44.277	1.00 95.17
ATOM	10061	O	GLU	1378	-24.897	8.314	44.260	1.00100.00
ATOM	10062	N	VAL	1379	-22.904	7.787	43.331	1.00 61.23
ATOM	10063	CA	VAL	1379	-23.022	8.636	42.132	1.00 61.14
ATOM	10064	CB	VAL	1379	-24.084	8.092	41.112	1.00 93.92
ATOM	10065	CG1	VAL	1379	-24.118	6.563	41.131	1.00100.00
ATOM	10066	CG2	VAL	1379	-25.469	8.695	41.358	1.00 92.77
ATOM	10067	C	VAL	1379	-23.230	10.147	42.306	1.00 61.87
ATOM	10068	O	VAL	1379	-24.024	10.602	43.131	1.00100.00
ATOM	10069	N	ILE	1380	-22.509	10.911	41.489	1.00100.00
ATOM	10070	CA	ILE	1380	-22.569	12.371	41.501	1.00100.00
ATOM	10071	CB	ILE	1380	-21.239	12.999	41.985	1.00 77.38
ATOM	10072	CG2	ILE	1380	-21.452	14.470	42.287	1.00 80.09
ATOM	10073	CG1	ILE	1380	-20.712	12.276	43.230	1.00 68.89
ATOM	10074	CD1	ILE	1380	-19.202	12.068	43.225	1.00 77.25
ATOM	10075	C	ILE	1380	-22.820	12.844	40.069	1.00 97.36
ATOM	10076	O	ILE	1380	-21.904	12.878	39.235	1.00 69.82
ATOM	10077	N	PRO	1381	-24.071	13.216	39.765	1.00 66.62
ATOM	10078	CD	PRO	1381	-25.217	13.233	40.687	1.00 71.03
ATOM	10079	CA	PRO	1381	-24.466	13.688	38.436	1.00 68.86
ATOM	10080	CB	PRO	1381	-25.977	13.857	38.575	1.00 70.84
ATOM	10081	CG	PRO	1381	-26.142	14.217	40.016	1.00 69.58
ATOM	10082	C	PRO	1381	-23.792	14.986	38.014	1.00 69.26
ATOM	10083	O	PRO	1381	-23.488	15.843	38.848	1.00 76.21
ATOM	10084	N	GLY	1382	-23.553	15.110	36.711	1.00 50.39

ATOM	10085	CA	GLY	1382	-22.926	16.301	36.166	1.00	50.93
ATOM	10086	C	GLY	1382	-21.555	16.566	36.746	1.00	44.67
ATOM	10087	O	GLY	1382	-21.357	17.526	37.493	1.00	73.43
ATOM	10088	N	LEU	1383	-20.606	15.715	36.384	1.00	28.15
ATOM	10089	CA	LEU	1383	-19.245	15.830	36.873	1.00	31.42
ATOM	10090	CB	LEU	1383	-19.240	15.616	38.389	1.00	58.48
ATOM	10091	CG	LEU	1383	-18.024	16.096	39.174	1.00	69.03
ATOM	10092	CD1	LEU	1383	-17.773	17.572	38.886	1.00	72.78
ATOM	10093	CD2	LEU	1383	-18.257	15.864	40.656	1.00	70.20
ATOM	10094	C	LEU	1383	-18.370	14.780	36.183	1.00	25.73
ATOM	10095	O	LEU	1383	-18.811	13.658	35.908	1.00	43.05
ATOM	10096	N	LYS	1384	-17.136	15.156	35.882	1.00	13.13
ATOM	10097	CA	LYS	1384	-16.199	14.252	35.225	1.00	9.59
ATOM	10098	CB	LYS	1384	-15.978	14.674	33.761	1.00	35.28
ATOM	10099	CG	LYS	1384	-15.515	16.112	33.584	1.00	44.09
ATOM	10100	CD	LYS	1384	-15.417	16.499	32.128	1.00	44.97
ATOM	10101	CE	LYS	1384	-14.914	17.923	31.992	1.00	45.76
ATOM	10102	NZ	LYS	1384	-14.665	18.291	30.570	1.00	52.28
ATOM	10103	C	LYS	1384	-14.890	14.302	35.989	1.00	6.55
ATOM	10104	O	LYS	1384	-13.808	14.205	35.404	1.00	33.78
ATOM	10105	N	SER	1385	-15.001	14.420	37.308	1.00	22.44
ATOM	10106	CA	SER	1385	-13.823	14.520	38.155	1.00	30.29
ATOM	10107	CB	SER	1385	-13.245	15.933	38.040	1.00	39.93
ATOM	10108	OG	SER	1385	-14.278	16.909	38.062	1.00	48.48
ATOM	10109	C	SER	1385	-14.054	14.171	39.628	1.00	35.61
ATOM	10110	O	SER	1385	-15.009	14.649	40.256	1.00	38.45
ATOM	10111	N	CYS	1386	-13.144	13.368	40.180	1.00	56.22
ATOM	10112	CA	CYS	1386	-13.216	12.948	41.576	1.00	60.75
ATOM	10113	C	CYS	1386	-11.907	13.169	42.301	1.00	57.95
ATOM	10114	O	CYS	1386	-10.851	12.808	41.786	1.00	13.81
ATOM	10115	CB	CYS	1386	-13.567	11.479	41.659	1.00	26.64
ATOM	10116	SG	CYS	1386	-15.331	11.109	41.463	1.00	41.65
ATOM	10117	N	MET	1387	-11.991	13.730	43.507	1.00	34.88
ATOM	10118	CA	MET	1387	-10.811	14.009	44.324	1.00	38.12
ATOM	10119	CB	MET	1387	-10.568	15.524	44.444	1.00	44.38
ATOM	10120	CG	MET	1387	-11.707	16.330	45.067	1.00	59.21
ATOM	10121	SD	MET	1387	-11.773	16.225	46.876	1.00	71.36
ATOM	10122	CE	MET	1387	-11.741	17.969	47.366	1.00	67.93
ATOM	10123	C	MET	1387	-10.903	13.356	45.703	1.00	36.99
ATOM	10124	O	MET	1387	-11.939	12.791	46.060	1.00	34.37
ATOM	10125	N	GLY	1388	-9.805	13.424	46.459	1.00	40.82
ATOM	10126	CA	GLY	1388	-9.755	12.825	47.783	1.00	43.83
ATOM	10127	C	GLY	1388	-9.412	11.346	47.750	1.00	40.49
ATOM	10128	O	GLY	1388	-9.556	10.628	48.742	1.00	46.34
ATOM	10129	N	LEU	1389	-8.891	10.909	46.612	1.00	38.95
ATOM	10130	CA	LEU	1389	-8.541	9.515	46.398	1.00	43.68
ATOM	10131	CB	LEU	1389	-8.626	9.196	44.893	1.00	20.72
ATOM	10132	CG	LEU	1389	-9.823	9.653	44.034	1.00	23.29
ATOM	10133	CD1	LEU	1389	-9.775	8.939	42.679	1.00	11.71
ATOM	10134	CD2	LEU	1389	-11.156	9.366	44.717	1.00	27.43
ATOM	10135	C	LEU	1389	-7.179	9.058	46.950	1.00	51.62
ATOM	10136	O	LEU	1389	-6.273	9.866	47.180	1.00	35.15
ATOM	10137	N	LYS	1390	-7.071	7.746	47.168	1.00	62.10
ATOM	10138	CA	LYS	1390	-5.852	7.096	47.653	1.00	69.46
ATOM	10139	CB	LYS	1390	-6.178	6.198	48.848	1.00	100.00
ATOM	10140	CG	LYS	1390	-4.999	5.378	49.343	1.00	100.00
ATOM	10141	CD	LYS	1390	-5.421	4.332	50.368	1.00	100.00

ATOM	10142	CE	LYS	1390	-6.334	3.270	49.764	1.00100.00
ATOM	10143	NZ	LYS	1390	-5.679	2.477	48.682	1.00100.00
ATOM	10144	C	LYS	1390	-5.328	6.240	46.494	1.00 68.16
ATOM	10145	O	LYS	1390	-6.126	5.655	45.762	1.00100.00
ATOM	10146	N	ILE	1391	-4.007	6.139	46.337	1.00 59.36
ATOM	10147	CA	ILE	1391	-3.424	5.358	45.230	1.00 60.53
ATOM	10148	CB	ILE	1391	-1.869	5.439	45.189	1.00 55.49
ATOM	10149	CG2	ILE	1391	-1.351	4.846	43.877	1.00 50.23
ATOM	10150	CG1	ILE	1391	-1.387	6.892	45.314	1.00 64.83
ATOM	10151	CD1	ILE	1391	-1.435	7.472	46.736	1.00 70.33
ATOM	10152	C	ILE	1391	-3.831	3.880	45.236	1.00 62.46
ATOM	10153	O	ILE	1391	-3.545	3.154	46.188	1.00 59.70
ATOM	10154	N	GLY	1392	-4.492	3.447	44.164	1.00 77.80
ATOM	10155	CA	GLY	1392	-4.936	2.066	44.058	1.00 79.53
ATOM	10156	C	GLY	1392	-6.423	1.933	43.762	1.00 80.64
ATOM	10157	O	GLY	1392	-6.859	0.951	43.152	1.00 74.65
ATOM	10158	N	ASP	1393	-7.195	2.931	44.191	1.00 67.28
ATOM	10159	CA	ASP	1393	-8.645	2.959	43.998	1.00 57.35
ATOM	10160	CB	ASP	1393	-9.265	4.121	44.790	1.00 75.85
ATOM	10161	CG	ASP	1393	-8.851	4.134	46.253	1.00 83.34
ATOM	10162	OD1	ASP	1393	-8.479	3.065	46.786	1.00 88.23
ATOM	10163	OD2	ASP	1393	-8.902	5.226	46.868	1.00 83.23
ATOM	10164	C	ASP	1393	-9.031	3.118	42.528	1.00 51.95
ATOM	10165	O	ASP	1393	-8.229	3.580	41.715	1.00 56.99
ATOM	10166	N	THR	1394	-10.271	2.750	42.202	1.00 31.79
ATOM	10167	CA	THR	1394	-10.786	2.867	40.841	1.00 29.11
ATOM	10168	CB	THR	1394	-11.133	1.498	40.239	1.00 35.21
ATOM	10169	OG1	THR	1394	-10.102	0.562	40.554	1.00 49.90
ATOM	10170	CG2	THR	1394	-11.250	1.595	38.727	1.00 28.36
ATOM	10171	C	THR	1394	-12.063	3.692	40.866	1.00 28.06
ATOM	10172	O	THR	1394	-12.883	3.560	41.784	1.00 28.90
ATOM	10173	N	VAL	1395	-12.226	4.537	39.852	1.00 32.54
ATOM	10174	CA	VAL	1395	-13.404	5.389	39.724	1.00 36.19
ATOM	10175	CB	VAL	1395	-13.033	6.884	39.929	1.00 28.58
ATOM	10176	CG1	VAL	1395	-14.056	7.787	39.304	1.00 32.86
ATOM	10177	CG2	VAL	1395	-12.935	7.200	41.412	1.00 26.93
ATOM	10178	C	VAL	1395	-14.067	5.168	38.362	1.00 36.10
ATOM	10179	O	VAL	1395	-13.408	4.777	37.384	1.00 21.41
ATOM	10180	N	SER	1396	-15.380	5.380	38.320	1.00 15.70
ATOM	10181	CA	SER	1396	-16.139	5.202	37.091	1.00 22.35
ATOM	10182	CB	SER	1396	-17.001	3.944	37.168	1.00 84.93
ATOM	10183	OG	SER	1396	-17.803	3.820	36.005	1.00 99.12
ATOM	10184	C	SER	1396	-17.019	6.394	36.745	1.00 19.54
ATOM	10185	O	SER	1396	-17.720	6.943	37.601	1.00 77.14
ATOM	10186	N	PHE	1397	-16.988	6.769	35.470	1.00 30.17
ATOM	10187	CA	PHE	1397	-17.779	7.885	34.975	1.00 27.99
ATOM	10188	CB	PHE	1397	-16.883	8.978	34.387	1.00 22.31
ATOM	10189	CG	PHE	1397	-15.789	9.420	35.301	1.00 13.29
ATOM	10190	CD1	PHE	1397	-14.535	8.818	35.247	1.00 12.35
ATOM	10191	CD2	PHE	1397	-16.010	10.424	36.231	1.00 9.79
ATOM	10192	CE1	PHE	1397	-13.517	9.204	36.109	1.00 18.41
ATOM	10193	CE2	PHE	1397	-14.998	10.822	37.104	1.00 4.63
ATOM	10194	CZ	PHE	1397	-13.750	10.208	37.038	1.00 10.24
ATOM	10195	C	PHE	1397	-18.651	7.356	33.871	1.00 32.08
ATOM	10196	O	PHE	1397	-18.166	6.682	32.964	1.00 35.90
ATOM	10197	N	SER	1398	-19.943	7.631	33.962	1.00 25.67
ATOM	10198	CA	SER	1398	-20.854	7.198	32.922	1.00 27.99

ATOM	10199	CB	SER	1398	-22.183	6.743	33.518	1.00	42.81
ATOM	10200	OG	SER	1398	-23.001	6.189	32.502	1.00	46.09
ATOM	10201	C	SER	1398	-21.065	8.348	31.924	1.00	24.15
ATOM	10202	O	SER	1398	-21.844	9.273	32.167	1.00	43.26
ATOM	10203	N	ILE	1399	-20.341	8.283	30.810	1.00	9.98
ATOM	10204	CA	ILE	1399	-20.409	9.281	29.743	1.00	10.98
ATOM	10205	CB	ILE	1399	-19.101	9.242	28.926	1.00	49.87
ATOM	10206	CG2	ILE	1399	-18.980	10.481	28.045	1.00	56.32
ATOM	10207	CG1	ILE	1399	-17.904	9.115	29.872	1.00	52.18
ATOM	10208	CD1	ILE	1399	-16.651	8.622	29.194	1.00	48.61
ATOM	10209	C	ILE	1399	-21.595	9.056	28.771	1.00	6.57
ATOM	10210	O	ILE	1399	-22.034	7.925	28.567	1.00	31.21
ATOM	10211	N	GLU	1400	-22.130	10.138	28.205	1.00	34.87
ATOM	10212	CA	GLU	1400	-23.224	10.044	27.227	1.00	42.33
ATOM	10213	CB	GLU	1400	-24.537	10.585	27.781	1.00	31.73
ATOM	10214	CG	GLU	1400	-25.666	10.529	26.753	1.00	40.34
ATOM	10215	CD	GLU	1400	-26.822	11.459	27.062	1.00	51.59
ATOM	10216	OE1	GLU	1400	-27.587	11.777	26.128	1.00	48.26
ATOM	10217	OE2	GLU	1400	-26.975	11.872	28.233	1.00	61.64
ATOM	10218	C	GLU	1400	-22.844	10.852	25.992	1.00	42.36
ATOM	10219	O	GLU	1400	-21.945	11.682	26.053	1.00	32.16
ATOM	10220	N	ALA	1401	-23.541	10.641	24.882	1.00	25.76
ATOM	10221	CA	ALA	1401	-23.224	11.365	23.655	1.00	23.74
ATOM	10222	CB	ALA	1401	-22.120	10.646	22.893	1.00	45.75
ATOM	10223	C	ALA	1401	-24.435	11.571	22.754	1.00	21.03
ATOM	10224	O	ALA	1401	-25.286	10.698	22.638	1.00	28.01
ATOM	10225	N	LYS	1402	-24.479	12.714	22.078	1.00	39.79
ATOM	10226	CA	LYS	1402	-25.602	13.021	21.210	1.00	41.20
ATOM	10227	CB	LYS	1402	-26.814	13.445	22.058	1.00	46.57
ATOM	10228	CG	LYS	1402	-28.166	13.370	21.340	1.00	53.47
ATOM	10229	CD	LYS	1402	-29.261	14.133	22.077	1.00	66.05
ATOM	10230	CE	LYS	1402	-29.458	13.625	23.488	1.00	70.65
ATOM	10231	NZ	LYS	1402	-30.504	14.401	24.207	1.00	76.54
ATOM	10232	C	LYS	1402	-25.256	14.124	20.211	1.00	44.97
ATOM	10233	O	LYS	1402	-24.612	15.118	20.555	1.00	51.48
ATOM	10234	N	VAL	1403	-25.724	13.933	18.981	1.00	52.23
ATOM	10235	CA	VAL	1403	-25.517	14.865	17.882	1.00	59.41
ATOM	10236	CB	VAL	1403	-25.037	14.111	16.617	1.00	44.14
ATOM	10237	CG1	VAL	1403	-23.776	13.338	16.924	1.00	44.05
ATOM	10238	CG2	VAL	1403	-26.117	13.155	16.107	1.00	44.80
ATOM	10239	C	VAL	1403	-26.831	15.577	17.559	1.00	68.52
ATOM	10240	O	VAL	1403	-27.900	14.964	17.614	1.00	61.79
ATOM	10241	N	ARG	1404	-26.758	16.869	17.243	1.00	55.59
ATOM	10242	CA	ARG	1404	-27.959	17.630	16.900	1.00	54.96
ATOM	10243	CB	ARG	1404	-27.824	19.094	17.310	1.00	74.00
ATOM	10244	CG	ARG	1404	-27.287	19.339	18.700	1.00	80.49
ATOM	10245	CD	ARG	1404	-27.600	20.765	19.114	1.00	91.22
ATOM	10246	NE	ARG	1404	-27.448	21.699	17.999	1.00	94.89
ATOM	10247	CZ	ARG	1404	-27.903	22.949	17.990	1.00	94.89
ATOM	10248	NH1	ARG	1404	-28.544	23.435	19.043	1.00	94.89
ATOM	10249	NH2	ARG	1404	-27.725	23.714	16.921	1.00	94.89
ATOM	10250	C	ARG	1404	-28.174	17.567	15.395	1.00	52.49
ATOM	10251	O	ARG	1404	-27.861	18.525	14.686	1.00	73.27
ATOM	10252	N	GLY	1405	-28.708	16.449	14.908	1.00	41.51
ATOM	10253	CA	GLY	1405	-28.932	16.293	13.477	1.00	44.01
ATOM	10254	C	GLY	1405	-27.621	15.962	12.790	1.00	45.64
ATOM	10255	O	GLY	1405	-26.844	16.852	12.434	1.00	99.98

ATOM	10256	N	CYS	1406	-27.397	14.671	12.581	1.00	97.73
ATOM	10257	CA	CYS	1406	-26.166	14.160	11.981	1.00	98.62
ATOM	10258	C	CYS	1406	-25.653	14.795	10.684	1.00	88.17
ATOM	10259	O	CYS	1406	-26.377	14.919	9.700	1.00	52.64
ATOM	10260	CB	CYS	1406	-26.266	12.642	11.824	1.00	68.89
ATOM	10261	SG	CYS	1406	-27.407	12.086	10.528	1.00	83.07
ATOM	10262	N	PRO	1407	-24.373	15.194	10.680	1.00	31.20
ATOM	10263	CD	PRO	1407	-23.515	15.160	11.879	1.00	95.81
ATOM	10264	CA	PRO	1407	-23.658	15.822	9.566	1.00	35.97
ATOM	10265	CB	PRO	1407	-22.484	16.495	10.271	1.00	100.00
ATOM	10266	CG	PRO	1407	-22.144	15.502	11.319	1.00	93.28
ATOM	10267	C	PRO	1407	-23.164	14.812	8.521	1.00	40.45
ATOM	10268	O	PRO	1407	-23.804	13.784	8.293	1.00	98.18
ATOM	10269	N	GLN	1408	-22.012	15.100	7.911	1.00	84.89
ATOM	10270	CA	GLN	1408	-21.456	14.214	6.899	1.00	85.80
ATOM	10271	CB	GLN	1408	-21.208	14.953	5.592	1.00	87.75
ATOM	10272	CG	GLN	1408	-22.514	15.397	4.928	1.00	100.00
ATOM	10273	CD	GLN	1408	-23.636	14.340	5.007	1.00	100.00
ATOM	10274	OE1	GLN	1408	-24.800	14.673	5.256	1.00	100.00
ATOM	10275	NE2	GLN	1408	-23.285	13.071	4.792	1.00	100.00
ATOM	10276	C	GLN	1408	-20.263	13.364	7.287	1.00	84.73
ATOM	10277	O	GLN	1408	-19.203	13.859	7.670	1.00	75.11
ATOM	10278	N	GLU	1409	-20.478	12.064	7.122	1.00	99.65
ATOM	10279	CA	GLU	1409	-19.534	11.004	7.434	1.00	100.00
ATOM	10280	CB	GLU	1409	-19.876	9.742	6.635	1.00	85.95
ATOM	10281	CG	GLU	1409	-20.760	8.742	7.385	1.00	91.65
ATOM	10282	CD	GLU	1409	-22.043	9.360	7.920	1.00	91.65
ATOM	10283	OE1	GLU	1409	-23.091	9.264	7.240	1.00	91.65
ATOM	10284	OE2	GLU	1409	-22.002	9.936	9.027	1.00	91.65
ATOM	10285	C	GLU	1409	-18.056	11.287	7.330	1.00	100.00
ATOM	10286	O	GLU	1409	-17.587	11.987	6.432	1.00	78.58
ATOM	10287	N	LYS	1410	-17.343	10.701	8.282	1.00	98.37
ATOM	10288	CA	LYS	1410	-15.901	10.797	8.407	1.00	100.00
ATOM	10289	CB	LYS	1410	-15.473	12.255	8.640	1.00	88.47
ATOM	10290	CG	LYS	1410	-13.994	12.556	8.366	1.00	88.47
ATOM	10291	CD	LYS	1410	-13.692	14.049	8.504	1.00	88.47
ATOM	10292	CE	LYS	1410	-12.278	14.404	8.042	1.00	86.15
ATOM	10293	NZ	LYS	1410	-11.201	13.818	8.899	1.00	86.02
ATOM	10294	C	LYS	1410	-15.555	9.930	9.618	1.00	100.00
ATOM	10295	O	LYS	1410	-16.440	9.571	10.417	1.00	73.70
ATOM	10296	N	GLU	1411	-14.278	9.568	9.726	1.00	81.71
ATOM	10297	CA	GLU	1411	-13.791	8.743	10.824	1.00	82.37
ATOM	10298	CB	GLU	1411	-12.258	8.667	10.794	1.00	100.00
ATOM	10299	CG	GLU	1411	-11.651	7.728	11.835	1.00	100.00
ATOM	10300	CD	GLU	1411	-12.152	6.295	11.701	1.00	100.00
ATOM	10301	OE1	GLU	1411	-13.126	5.935	12.403	1.00	99.31
ATOM	10302	OE2	GLU	1411	-11.575	5.531	10.890	1.00	93.65
ATOM	10303	C	GLU	1411	-14.251	9.363	12.125	1.00	76.36
ATOM	10304	O	GLU	1411	-14.939	8.724	12.921	1.00	94.07
ATOM	10305	N	LYS	1412	-13.917	10.641	12.281	1.00	84.94
ATOM	10306	CA	LYS	1412	-14.266	11.421	13.457	1.00	77.45
ATOM	10307	CB	LYS	1412	-15.682	11.997	13.314	1.00	69.25
ATOM	10308	CG	LYS	1412	-15.780	13.120	12.268	1.00	76.36
ATOM	10309	CD	LYS	1412	-17.228	13.508	11.954	1.00	74.87
ATOM	10310	CE	LYS	1412	-17.309	14.598	10.881	1.00	66.77
ATOM	10311	NZ	LYS	1412	-18.708	14.829	10.399	1.00	62.60
ATOM	10312	C	LYS	1412	-14.088	10.607	14.735	1.00	73.61

ATOM	10313	O	LYS	1412	-15.037	10.079	15.308	1.00	64.23
ATOM	10314	N	SER	1413	-12.830	10.447	15.117	1.00	59.15
ATOM	10315	CA	SER	1413	-12.474	9.708	16.310	1.00	54.07
ATOM	10316	CB	SER	1413	-11.480	8.595	15.963	1.00	53.46
ATOM	10317	OG	SER	1413	-11.969	7.771	14.919	1.00	57.73
ATOM	10318	C	SER	1413	-11.839	10.678	17.296	1.00	50.01
ATOM	10319	O	SER	1413	-10.836	11.325	16.989	1.00	53.45
ATOM	10320	N	PHE	1414	-12.460	10.823	18.459	1.00	31.86
ATOM	10321	CA	PHE	1414	-11.925	11.703	19.483	1.00	24.09
ATOM	10322	CB	PHE	1414	-12.915	12.795	19.891	1.00	21.22
ATOM	10323	CG	PHE	1414	-14.230	12.281	20.398	1.00	10.13
ATOM	10324	CD1	PHE	1414	-14.509	12.293	21.762	1.00	4.10
ATOM	10325	CD2	PHE	1414	-15.223	11.850	19.502	1.00	3.63
ATOM	10326	CE1	PHE	1414	-15.761	11.892	22.234	1.00	6.10
ATOM	10327	CE2	PHE	1414	-16.476	11.447	19.961	1.00	7.54
ATOM	10328	CZ	PHE	1414	-16.747	11.470	21.334	1.00	13.30
ATOM	10329	C	PHE	1414	-11.463	10.936	20.697	1.00	17.39
ATOM	10330	O	PHE	1414	-11.518	9.707	20.740	1.00	19.51
ATOM	10331	N	THR	1415	-11.074	11.687	21.713	1.00	10.77
ATOM	10332	CA	THR	1415	-10.549	11.096	22.915	1.00	9.79
ATOM	10333	CB	THR	1415	-9.029	11.314	22.938	1.00	15.61
ATOM	10334	OG1	THR	1415	-8.463	10.682	21.784	1.00	25.83
ATOM	10335	CG2	THR	1415	-8.394	10.735	24.179	1.00	21.24
ATOM	10336	C	THR	1415	-11.211	11.629	24.182	1.00	8.15
ATOM	10337	O	THR	1415	-11.923	12.637	24.155	1.00	20.04
ATOM	10338	N	ILE	1416	-11.074	10.840	25.248	1.00	17.66
ATOM	10339	CA	ILE	1416	-11.580	11.121	26.593	1.00	16.30
ATOM	10340	CB	ILE	1416	-12.911	10.408	26.887	1.00	2.00
ATOM	10341	CG2	ILE	1416	-13.351	10.727	28.322	1.00	2.00
ATOM	10342	CG1	ILE	1416	-13.971	10.756	25.826	1.00	10.57
ATOM	10343	CD1	ILE	1416	-15.209	9.864	25.860	1.00	19.28
ATOM	10344	C	ILE	1416	-10.528	10.451	27.469	1.00	23.10
ATOM	10345	O	ILE	1416	-10.201	9.277	27.257	1.00	23.82
ATOM	10346	N	LYS	1417	-9.974	11.188	28.425	1.00	40.53
ATOM	10347	CA	LYS	1417	-8.939	10.619	29.280	1.00	35.11
ATOM	10348	CB	LYS	1417	-7.613	10.494	28.515	1.00	17.40
ATOM	10349	CG	LYS	1417	-6.994	11.832	28.091	1.00	16.86
ATOM	10350	CD	LYS	1417	-5.664	11.644	27.369	1.00	18.11
ATOM	10351	CE	LYS	1417	-4.491	11.772	28.319	1.00	18.15
ATOM	10352	NZ	LYS	1417	-3.208	11.586	27.588	1.00	32.16
ATOM	10353	C	LYS	1417	-8.662	11.408	30.532	1.00	42.24
ATOM	10354	O	LYS	1417	-9.042	12.567	30.655	1.00	30.32
ATOM	10355	N	PRO	1418	-8.014	10.760	31.500	1.00	44.26
ATOM	10356	CD	PRO	1418	-7.862	9.304	31.638	1.00	40.77
ATOM	10357	CA	PRO	1418	-7.680	11.432	32.750	1.00	46.31
ATOM	10358	CB	PRO	1418	-7.411	10.271	33.696	1.00	44.15
ATOM	10359	CG	PRO	1418	-8.180	9.119	33.073	1.00	53.83
ATOM	10360	C	PRO	1418	-6.428	12.271	32.521	1.00	45.38
ATOM	10361	O	PRO	1418	-5.544	11.898	31.743	1.00	42.37
ATOM	10362	N	VAL	1419	-6.380	13.421	33.176	1.00	26.30
ATOM	10363	CA	VAL	1419	-5.261	14.337	33.047	1.00	22.92
ATOM	10364	CB	VAL	1419	-5.643	15.718	33.599	1.00	25.10
ATOM	10365	CG1	VAL	1419	-6.909	16.199	32.912	1.00	24.11
ATOM	10366	CG2	VAL	1419	-5.863	15.658	35.101	1.00	39.69
ATOM	10367	C	VAL	1419	-3.984	13.790	33.698	1.00	24.42
ATOM	10368	O	VAL	1419	-3.963	13.431	34.883	1.00	26.99
ATOM	10369	N	GLY	1420	-2.927	13.691	32.901	1.00	46.31

ATOM	10370	CA	GLY	1420	-1.676	13.159	33.412	1.00	48.61
ATOM	10371	C	GLY	1420	-1.494	11.702	33.028	1.00	50.60
ATOM	10372	O	GLY	1420	-0.371	11.189	33.035	1.00	86.47
ATOM	10373	N	PHE	1421	-2.599	11.039	32.684	1.00	24.62
ATOM	10374	CA	PHE	1421	-2.574	9.632	32.285	1.00	19.39
ATOM	10375	CB	PHE	1421	-3.893	8.933	32.634	1.00	38.14
ATOM	10376	CG	PHE	1421	-4.103	8.734	34.102	1.00	36.77
ATOM	10377	CD1	PHE	1421	-3.107	9.061	35.016	1.00	46.36
ATOM	10378	CD2	PHE	1421	-5.312	8.262	34.576	1.00	34.47
ATOM	10379	CE1	PHE	1421	-3.321	8.924	36.385	1.00	48.00
ATOM	10380	CE2	PHE	1421	-5.543	8.122	35.941	1.00	42.77
ATOM	10381	CZ	PHE	1421	-4.547	8.456	36.850	1.00	41.54
ATOM	10382	C	PHE	1421	-2.285	9.440	30.809	1.00	15.92
ATOM	10383	O	PHE	1421	-2.755	10.201	29.973	1.00	27.50
ATOM	10384	N	LYS	1422	-1.489	8.415	30.518	1.00	18.61
ATOM	10385	CA	LYS	1422	-1.093	8.027	29.161	1.00	21.96
ATOM	10386	CB	LYS	1422	0.122	7.080	29.264	1.00	28.22
ATOM	10387	CG	LYS	1422	0.466	6.276	28.025	1.00	41.22
ATOM	10388	CD	LYS	1422	1.373	7.043	27.084	1.00	51.01
ATOM	10389	CE	LYS	1422	1.549	6.323	25.734	1.00	56.64
ATOM	10390	NZ	LYS	1422	2.238	4.991	25.805	1.00	56.84
ATOM	10391	C	LYS	1422	-2.286	7.319	28.497	1.00	23.34
ATOM	10392	O	LYS	1422	-2.584	7.527	27.317	1.00	33.31
ATOM	10393	N	ASP	1423	-2.994	6.537	29.313	1.00	22.00
ATOM	10394	CA	ASP	1423	-4.153	5.749	28.910	1.00	18.83
ATOM	10395	CB	ASP	1423	-4.500	4.749	30.022	1.00	40.11
ATOM	10396	CG	ASP	1423	-3.311	3.893	30.430	1.00	45.96
ATOM	10397	OD1	ASP	1423	-3.056	2.879	29.740	1.00	39.68
ATOM	10398	OD2	ASP	1423	-2.629	4.243	31.428	1.00	46.89
ATOM	10399	C	ASP	1423	-5.366	6.606	28.578	1.00	14.16
ATOM	10400	O	ASP	1423	-5.751	7.482	29.352	1.00	16.15
ATOM	10401	N	SER	1424	-6.016	6.280	27.466	1.00	31.94
ATOM	10402	CA	SER	1424	-7.183	7.025	27.015	1.00	37.79
ATOM	10403	CB	SER	1424	-6.719	8.149	26.096	1.00	72.67
ATOM	10404	OG	SER	1424	-5.888	7.632	25.069	1.00	77.20
ATOM	10405	C	SER	1424	-8.221	6.176	26.278	1.00	35.78
ATOM	10406	O	SER	1424	-7.895	5.126	25.712	1.00	57.67
ATOM	10407	N	LEU	1425	-9.463	6.663	26.267	1.00	22.04
ATOM	10408	CA	LEU	1425	-10.575	5.989	25.583	1.00	22.69
ATOM	10409	CB	LEU	1425	-11.841	6.001	26.449	1.00	17.53
ATOM	10410	CG	LEU	1425	-13.168	5.587	25.811	1.00	17.09
ATOM	10411	CD1	LEU	1425	-12.987	4.296	25.023	1.00	9.78
ATOM	10412	CD2	LEU	1425	-14.243	5.462	26.887	1.00	11.97
ATOM	10413	C	LEU	1425	-10.848	6.649	24.236	1.00	23.14
ATOM	10414	O	LEU	1425	-11.368	7.761	24.171	1.00	27.29
ATOM	10415	N	ILE	1426	-10.528	5.926	23.169	1.00	10.01
ATOM	10416	CA	ILE	1426	-10.681	6.423	21.809	1.00	9.06
ATOM	10417	CB	ILE	1426	-9.624	5.801	20.874	1.00	23.17
ATOM	10418	CG2	ILE	1426	-9.722	6.403	19.484	1.00	8.11
ATOM	10419	CG1	ILE	1426	-8.221	6.020	21.447	1.00	31.19
ATOM	10420	CD1	ILE	1426	-7.844	5.077	22.607	1.00	30.25
ATOM	10421	C	ILE	1426	-12.071	6.167	21.252	1.00	6.48
ATOM	10422	O	ILE	1426	-12.407	5.037	20.917	1.00	29.93
ATOM	10423	N	VAL	1427	-12.839	7.240	21.083	1.00	8.49
ATOM	10424	CA	VAL	1427	-14.203	7.142	20.589	1.00	8.65
ATOM	10425	CB	VAL	1427	-15.143	8.012	21.440	1.00	6.01
ATOM	10426	CG1	VAL	1427	-16.570	7.865	20.979	1.00	3.42

ATOM	10427	CG2	VAL	1427	-15.023	7.620	22.890	1.00	3.42
ATOM	10428	C	VAL	1427	-14.377	7.479	19.107	1.00	9.87
ATOM	10429	O	VAL	1427	-14.372	8.643	18.720	1.00	23.63
ATOM	10430	N	GLN	1428	-14.542	6.447	18.284	1.00	23.74
ATOM	10431	CA	GLN	1428	-14.746	6.622	16.848	1.00	29.75
ATOM	10432	CB	GLN	1428	-14.274	5.382	16.081	1.00	20.36
ATOM	10433	CG	GLN	1428	-12.984	4.762	16.599	1.00	28.03
ATOM	10434	CD	GLN	1428	-12.515	3.591	15.751	1.00	38.30
ATOM	10435	OE1	GLN	1428	-11.922	2.636	16.253	1.00	31.19
ATOM	10436	NE2	GLN	1428	-12.773	3.667	14.454	1.00	53.08
ATOM	10437	C	GLN	1428	-16.245	6.808	16.623	1.00	33.09
ATOM	10438	O	GLN	1428	-17.044	5.958	17.009	1.00	29.00
ATOM	10439	N	VAL	1429	-16.638	7.916	16.009	1.00	22.63
ATOM	10440	CA	VAL	1429	-18.056	8.149	15.779	1.00	32.04
ATOM	10441	CB	VAL	1429	-18.596	9.356	16.618	1.00	26.87
ATOM	10442	CG1	VAL	1429	-17.710	10.571	16.452	1.00	31.96
ATOM	10443	CG2	VAL	1429	-20.061	9.668	16.271	1.00	18.19
ATOM	10444	C	VAL	1429	-18.469	8.245	14.320	1.00	39.80
ATOM	10445	O	VAL	1429	-17.803	8.867	13.488	1.00	44.61
ATOM	10446	N	THR	1430	-19.580	7.583	14.030	1.00	46.33
ATOM	10447	CA	THR	1430	-20.144	7.545	12.698	1.00	44.42
ATOM	10448	CB	THR	1430	-19.976	6.161	12.109	1.00	30.30
ATOM	10449	OG1	THR	1430	-18.750	5.595	12.592	1.00	29.88
ATOM	10450	CG2	THR	1430	-19.911	6.251	10.600	1.00	22.05
ATOM	10451	C	THR	1430	-21.625	7.892	12.800	1.00	43.89
ATOM	10452	O	THR	1430	-22.227	7.779	13.873	1.00	20.29
ATOM	10453	N	PHE	1431	-22.216	8.312	11.687	1.00	49.62
ATOM	10454	CA	PHE	1431	-23.619	8.702	11.701	1.00	59.66
ATOM	10455	CB	PHE	1431	-23.739	10.219	11.513	1.00	69.85
ATOM	10456	CG	PHE	1431	-22.775	11.019	12.349	1.00	75.95
ATOM	10457	CD1	PHE	1431	-21.503	11.321	11.867	1.00	82.76
ATOM	10458	CD2	PHE	1431	-23.137	11.474	13.613	1.00	72.87
ATOM	10459	CE1	PHE	1431	-20.608	12.063	12.634	1.00	82.44
ATOM	10460	CE2	PHE	1431	-22.248	12.216	14.386	1.00	67.30
ATOM	10461	CZ	PHE	1431	-20.985	12.512	13.899	1.00	71.79
ATOM	10462	C	PHE	1431	-24.511	7.992	10.683	1.00	64.52
ATOM	10463	O	PHE	1431	-24.236	8.004	9.481	1.00	74.92
ATOM	10464	N	ASP	1432	-25.573	7.362	11.183	1.00	68.92
ATOM	10465	CA	ASP	1432	-26.549	6.674	10.341	1.00	68.56
ATOM	10466	CB	ASP	1432	-27.287	5.589	11.135	1.00	100.00
ATOM	10467	CG	ASP	1432	-26.574	4.245	11.105	1.00	100.00
ATOM	10468	OD1	ASP	1432	-26.439	3.622	12.182	1.00	100.00
ATOM	10469	OD2	ASP	1432	-26.174	3.800	10.004	1.00	100.00
ATOM	10470	C	ASP	1432	-27.540	7.738	9.892	1.00	66.77
ATOM	10471	O	ASP	1432	-28.518	8.017	10.590	1.00	85.83
ATOM	10472	N	CYS	1433	-27.280	8.333	8.731	1.00	99.23
ATOM	10473	CA	CYS	1433	-28.128	9.399	8.206	1.00	100.00
ATOM	10474	C	CYS	1433	-28.896	9.049	6.942	1.00	100.00
ATOM	10475	O	CYS	1433	-30.069	9.393	6.801	1.00	56.67
ATOM	10476	CB	CYS	1433	-27.279	10.632	7.894	1.00	69.13
ATOM	10477	SG	CYS	1433	-26.160	11.183	9.215	1.00	69.87
ATOM	10478	N	ASP	1434	-28.207	8.393	6.016	1.00	100.00
ATOM	10479	CA	ASP	1434	-28.770	8.037	4.721	1.00	100.00
ATOM	10480	CB	ASP	1434	-27.634	7.935	3.699	1.00	100.00
ATOM	10481	CG	ASP	1434	-26.570	9.009	3.898	1.00	100.00
ATOM	10482	OD1	ASP	1434	-25.662	8.794	4.733	1.00	100.00
ATOM	10483	OD2	ASP	1434	-26.647	10.063	3.228	1.00	100.00

ATOM	10484	C	ASP	1434	-29.662	6.792	4.654	1.00100.00
ATOM	10485	O	ASP	1434	-29.313	5.715	5.150	1.00100.00
ATOM	10486	N	CYS	1435	-30.819	6.968	4.021	1.00100.00
ATOM	10487	CA	CYS	1435	-31.803	5.909	3.822	1.00100.00
ATOM	10488	CB	CYS	1435	-33.198	6.441	4.164	1.00100.00
ATOM	10489	SG	CYS	1435	-34.521	5.212	4.225	1.00100.00
ATOM	10490	C	CYS	1435	-31.711	5.543	2.336	1.00100.00
ATOM	10491	O	CYS	1435	-31.849	6.411	1.470	1.00100.00
ATOM	10492	N	ASP	1436	-31.478	4.266	2.041	1.00100.00
ATOM	10493	CA	ASP	1436	-31.321	3.810	0.656	1.00100.00
ATOM	10494	CB	ASP	1436	-30.209	2.771	0.594	1.00 77.33
ATOM	10495	CG	ASP	1436	-29.066	3.116	1.513	1.00 79.60
ATOM	10496	OD1	ASP	1436	-29.132	2.738	2.707	1.00 79.60
ATOM	10497	OD2	ASP	1436	-28.133	3.809	1.053	1.00 79.60
ATOM	10498	C	ASP	1436	-32.573	3.251	0.008	1.00100.00
ATOM	10499	O	ASP	1436	-32.632	3.119	-1.217	1.00 77.36
ATOM	10500	N	CYS	1437	-33.566	2.923	0.833	1.00 92.03
ATOM	10501	CA	CYS	1437	-34.833	2.371	0.358	1.00 92.54
ATOM	10502	CB	CYS	1437	-35.625	1.772	1.528	1.00100.00
ATOM	10503	SG	CYS	1437	-34.792	0.401	2.395	1.00100.00
ATOM	10504	C	CYS	1437	-35.673	3.424	-0.367	1.00 92.54
ATOM	10505	O	CYS	1437	-36.850	3.199	-0.669	1.00100.00
ATOM	10506	N	GLN	1438	-35.038	4.557	-0.664	1.00100.00
ATOM	10507	CA	GLN	1438	-35.661	5.685	-1.356	1.00100.00
ATOM	10508	CB	GLN	1438	-34.717	6.896	-1.327	1.00100.00
ATOM	10509	CG	GLN	1438	-33.300	6.598	-1.829	1.00100.00
ATOM	10510	CD	GLN	1438	-32.366	7.794	-1.737	1.00100.00
ATOM	10511	OE1	GLN	1438	-31.245	7.682	-1.237	1.00100.00
ATOM	10512	NE2	GLN	1438	-32.821	8.943	-2.229	1.00100.00
ATOM	10513	C	GLN	1438	-36.058	5.374	-2.802	1.00100.00
ATOM	10514	O	GLN	1438	-35.211	5.055	-3.639	1.00100.00
ATOM	10515	N	ALA	1439	-37.355	5.465	-3.083	1.00100.00
ATOM	10516	CA	ALA	1439	-37.874	5.209	-4.422	1.00100.00
ATOM	10517	CB	ALA	1439	-39.262	4.565	-4.333	1.00 91.12
ATOM	10518	C	ALA	1439	-37.921	6.508	-5.243	1.00100.00
ATOM	10519	O	ALA	1439	-38.652	7.441	-4.904	1.00 98.52
ATOM	10520	N	GLN	1440	-37.119	6.562	-6.308	1.00100.00
ATOM	10521	CA	GLN	1440	-37.031	7.725	-7.200	1.00100.00
ATOM	10522	CB	GLN	1440	-36.113	7.401	-8.386	1.00100.00
ATOM	10523	CG	GLN	1440	-36.415	6.057	-9.059	1.00100.00
ATOM	10524	CD	GLN	1440	-35.380	5.662	-10.103	1.00100.00
ATOM	10525	OE1	GLN	1440	-34.173	5.746	-9.863	1.00100.00
ATOM	10526	NE2	GLN	1440	-35.850	5.214	-11.264	1.00100.00
ATOM	10527	C	GLN	1440	-38.393	8.213	-7.700	1.00100.00
ATOM	10528	O	GLN	1440	-38.991	7.602	-8.588	1.00100.00
ATOM	10529	N	ALA	1441	-38.866	9.320	-7.124	1.00 99.66
ATOM	10530	CA	ALA	1441	-40.161	9.920	-7.463	1.00 99.66
ATOM	10531	CB	ALA	1441	-40.224	10.261	-8.958	1.00 97.87
ATOM	10532	C	ALA	1441	-41.318	8.993	-7.067	1.00 99.66
ATOM	10533	O	ALA	1441	-41.310	7.803	-7.396	1.00 99.98
ATOM	10534	N	GLU	1442	-42.307	9.536	-6.356	1.00100.00
ATOM	10535	CA	GLU	1442	-43.458	8.739	-5.909	1.00100.00
ATOM	10536	CB	GLU	1442	-43.726	8.983	-4.413	1.00 99.54
ATOM	10537	CG	GLU	1442	-42.514	8.769	-3.493	1.00 93.54
ATOM	10538	CD	GLU	1442	-41.936	7.358	-3.560	1.00 88.53
ATOM	10539	OE1	GLU	1442	-41.227	7.049	-4.539	1.00 83.26
ATOM	10540	OE2	GLU	1442	-42.176	6.559	-2.629	1.00 81.27

ATOM	10541	C	GLU	1442	-44.750	8.927	-6.726	1.00100.00
ATOM	10542	O	GLU	1442	-45.822	9.179	-6.166	1.00 99.54
ATOM	10543	N	ALA	1443	-44.640	8.776	-8.047	1.00100.00
ATOM	10544	CA	ALA	1443	-45.775	8.910	-8.965	1.00100.00
ATOM	10545	CB	ALA	1443	-46.415	10.293	-8.826	1.00 93.87
ATOM	10546	C	ALA	1443	-45.325	8.666	-10.413	1.00100.00
ATOM	10547	O	ALA	1443	-44.686	9.528	-11.026	1.00 93.87
ATOM	10548	N	ALA	1444	-45.649	7.485	-10.945	1.00100.00
ATOM	10549	CA	ALA	1444	-45.279	7.111	-12.316	1.00100.00
ATOM	10550	CB	ALA	1444	-44.286	5.948	-12.298	1.00 79.63
ATOM	10551	C	ALA	1444	-46.497	6.760	-13.180	1.00100.00
ATOM	10552	O	ALA	1444	-47.626	6.726	-12.686	1.00 84.98
ATOM	10553	N	ALA	1445	-46.253	6.480	-14.462	1.00100.00
ATOM	10554	CA	ALA	1445	-47.313	6.146	-15.422	1.00100.00
ATOM	10555	CB	ALA	1445	-46.728	5.994	-16.824	1.00 97.15
ATOM	10556	C	ALA	1445	-48.167	4.921	-15.075	1.00100.00
ATOM	10557	O	ALA	1445	-47.645	3.833	-14.813	1.00 97.15
ATOM	10558	N	ALA	1446	-49.488	5.122	-15.110	1.00100.00
ATOM	10559	CA	ALA	1446	-50.501	4.093	-14.818	1.00100.00
ATOM	10560	CB	ALA	1446	-50.678	3.937	-13.299	1.00100.00
ATOM	10561	C	ALA	1446	-51.841	4.495	-15.476	1.00100.00
ATOM	10562	O	ALA	1446	-52.445	3.719	-16.227	1.00100.00
ATOM	10563	N	ALA	1447	-52.280	5.719	-15.171	1.00100.00
ATOM	10564	CA	ALA	1447	-53.509	6.341	-15.694	1.00100.00
ATOM	10565	CB	ALA	1447	-54.750	5.824	-14.941	1.00100.00
ATOM	10566	C	ALA	1447	-53.353	7.866	-15.505	1.00100.00
ATOM	10567	O	ALA	1447	-54.086	8.668	-16.094	1.00100.00
ATOM	10568	N	ALA	1448	-52.356	8.226	-14.690	1.00100.00
ATOM	10569	CA	ALA	1448	-51.983	9.603	-14.347	1.00100.00
ATOM	10570	CB	ALA	1448	-53.037	10.233	-13.421	1.00100.00
ATOM	10571	C	ALA	1448	-50.610	9.528	-13.645	1.00100.00
ATOM	10572	O	ALA	1448	-50.500	9.018	-12.522	1.00100.00
ATOM	10573	N	ALA	1449	-49.574	10.038	-14.315	1.00100.00
ATOM	10574	CA	ALA	1449	-48.193	10.006	-13.811	1.00100.00
ATOM	10575	CB	ALA	1449	-47.204	10.227	-14.977	1.00100.00
ATOM	10576	C	ALA	1449	-47.809	10.890	-12.609	1.00100.00
ATOM	10577	O	ALA	1449	-48.477	10.880	-11.563	1.00 99.28
ATOM	10578	N	ALA	1450	-46.702	11.620	-12.772	1.00100.00
ATOM	10579	CA	ALA	1450	-46.136	12.497	-11.746	1.00100.00
ATOM	10580	CB	ALA	1450	-44.991	13.318	-12.332	1.00 93.55
ATOM	10581	C	ALA	1450	-47.090	13.402	-10.973	1.00100.00
ATOM	10582	O	ALA	1450	-47.867	14.177	-11.547	1.00 93.51
ATOM	10583	N	ALA	1451	-47.006	13.280	-9.651	1.00100.00
ATOM	10584	CA	ALA	1451	-47.809	14.066	-8.726	1.00100.00
ATOM	10585	CB	ALA	1451	-48.485	13.143	-7.707	1.00100.00
ATOM	10586	C	ALA	1451	-46.870	15.050	-8.022	1.00100.00
ATOM	10587	O	ALA	1451	-47.309	16.082	-7.498	1.00100.00
ATOM	10588	N	ALA	1452	-45.572	14.735	-8.073	1.00100.00
ATOM	10589	CA	ALA	1452	-44.507	15.527	-7.453	1.00100.00
ATOM	10590	CB	ALA	1452	-43.174	14.775	-7.572	1.00 98.66
ATOM	10591	C	ALA	1452	-44.356	16.967	-7.975	1.00100.00
ATOM	10592	O	ALA	1452	-43.407	17.274	-8.706	1.00 99.84
ATOM	10593	N	ALA	1453	-45.289	17.837	-7.578	1.00100.00
ATOM	10594	CA	ALA	1453	-45.311	19.259	-7.958	1.00100.00
ATOM	10595	CB	ALA	1453	-44.121	19.993	-7.337	1.00 88.73
ATOM	10596	C	ALA	1453	-45.382	19.536	-9.466	1.00100.00
ATOM	10597	O	ALA	1453	-45.603	20.680	-9.891	1.00 86.61

ATOM	10598	N	ALA	1454	-45.180	18.487	-10.261	1.00100.00
ATOM	10599	CA	ALA	1454	-45.220	18.579	-11.716	1.00100.00
ATOM	10600	CB	ALA	1454	-44.300	17.531	-12.328	1.00100.00
ATOM	10601	C	ALA	1454	-46.654	18.395	-12.214	1.00100.00
ATOM	10602	O	ALA	1454	-46.927	18.497	-13.414	1.00100.00
ATOM	10603	N	ALA	1455	-47.562	18.119	-11.280	1.00100.00
ATOM	10604	CA	ALA	1455	-48.975	17.935	-11.592	1.00100.00
ATOM	10605	CB	ALA	1455	-49.693	17.297	-10.403	1.00 86.79
ATOM	10606	C	ALA	1455	-49.616	19.281	-11.951	1.00100.00
ATOM	10607	O	ALA	1455	-50.707	19.319	-12.523	1.00 89.89
ATOM	10608	N	ALA	1456	-48.905	20.368	-11.631	1.00100.00
ATOM	10609	CA	ALA	1456	-49.321	21.758	-11.877	1.00100.00
ATOM	10610	CB	ALA	1456	-49.752	21.954	-13.343	1.00100.00
ATOM	10611	C	ALA	1456	-50.408	22.270	-10.918	1.00100.00
ATOM	10612	O	ALA	1456	-51.365	21.551	-10.605	1.00100.00
ATOM	10613	N	ALA	1457	-50.243	23.511	-10.450	1.00100.00
ATOM	10614	CA	ALA	1457	-51.193	24.143	-9.525	1.00100.00
ATOM	10615	CB	ALA	1457	-50.571	25.383	-8.890	1.00 99.63
ATOM	10616	C	ALA	1457	-52.516	24.508	-10.207	1.00100.00
ATOM	10617	O	ALA	1457	-52.520	25.083	-11.305	1.00 99.63
ATOM	10618	N	ALA	1458	-53.628	24.189	-9.534	1.00100.00
ATOM	10619	CA	ALA	1458	-54.987	24.444	-10.038	1.00100.00
ATOM	10620	CB	ALA	1458	-55.340	25.936	-9.945	1.00 95.85
ATOM	10621	C	ALA	1458	-55.154	23.928	-11.469	1.00100.00
ATOM	10622	O	ALA	1458	-55.639	24.634	-12.356	1.00 95.85
ATOM	10623	N	ALA	1459	-54.718	22.687	-11.670	1.00100.00
ATOM	10624	CA	ALA	1459	-54.784	22.012	-12.959	1.00100.00
ATOM	10625	CB	ALA	1459	-53.557	22.363	-13.806	1.00 85.69
ATOM	10626	C	ALA	1459	-54.848	20.507	-12.704	1.00100.00
ATOM	10627	O	ALA	1459	-55.529	19.776	-13.427	1.00 85.69
ATOM	10628	N	ALA	1460	-54.157	20.063	-11.651	1.00100.00
ATOM	10629	CA	ALA	1460	-54.112	18.651	-11.267	1.00100.00
ATOM	10630	CB	ALA	1460	-52.869	18.369	-10.425	1.00 98.07
ATOM	10631	C	ALA	1460	-55.370	18.228	-10.509	1.00100.00
ATOM	10632	O	ALA	1460	-56.374	17.859	-11.126	1.00 98.07
ATOM	10633	N	ALA	1461	-55.310	18.291	-9.176	1.00100.00
ATOM	10634	CA	ALA	1461	-56.439	17.916	-8.320	1.00100.00
ATOM	10635	CB	ALA	1461	-56.687	16.411	-8.404	1.00 93.89
ATOM	10636	C	ALA	1461	-56.261	18.329	-6.861	1.00100.00
ATOM	10637	O	ALA	1461	-55.182	18.767	-6.447	1.00 93.89
ATOM	10638	N	ALA	1462	-57.334	18.167	-6.089	1.00 78.03
ATOM	10639	CA	ALA	1462	-57.338	18.498	-4.669	1.00 77.70
ATOM	10640	CB	ALA	1462	-57.456	20.006	-4.481	1.00 86.75
ATOM	10641	C	ALA	1462	-58.462	17.778	-3.917	1.00 73.25
ATOM	10642	O	ALA	1462	-59.401	17.268	-4.519	1.00 78.37
ATOM	10643	N	ALA	1463	-58.342	17.724	-2.597	1.00 71.01
ATOM	10644	CA	ALA	1463	-59.333	17.086	-1.738	1.00 66.74
ATOM	10645	CB	ALA	1463	-59.223	15.554	-1.827	1.00 44.83
ATOM	10646	C	ALA	1463	-59.064	17.574	-0.312	1.00 69.29
ATOM	10647	O	ALA	1463	-57.913	17.836	0.046	1.00 59.96
ATOM	10648	N	ALA	1464	-60.121	17.701	0.493	1.00100.00
ATOM	10649	CA	ALA	1464	-60.021	18.174	1.886	1.00100.00
ATOM	10650	CB	ALA	1464	-61.419	18.273	2.507	1.00 78.30
ATOM	10651	C	ALA	1464	-59.100	17.340	2.791	1.00100.00
ATOM	10652	O	ALA	1464	-58.932	17.644	3.981	1.00 79.93
ATOM	10653	N	ALA	1465	-58.518	16.292	2.211	1.00100.00
ATOM	10654	CA	ALA	1465	-57.613	15.390	2.909	1.00100.00

ATOM	10655	CB	ALA	1465	-58.150	13.957	2.829	1.00	72.45
ATOM	10656	C	ALA	1465	-56.202	15.477	2.307	1.00	100.00
ATOM	10657	O	ALA	1465	-55.225	15.692	3.035	1.00	73.22
ATOM	10658	N	ALA	1466	-56.111	15.343	0.980	1.00	100.00
ATOM	10659	CA	ALA	1466	-54.827	15.399	0.262	1.00	100.00
ATOM	10660	CB	ALA	1466	-54.097	14.042	0.363	1.00	100.00
ATOM	10661	C	ALA	1466	-54.935	15.849	-1.215	1.00	100.00
ATOM	10662	O	ALA	1466	-54.574	16.984	-1.551	1.00	100.00
ATOM	10663	N	ALA	1467	-55.398	14.954	-2.090	1.00	99.92
ATOM	10664	CA	ALA	1467	-55.550	15.258	-3.516	1.00	99.92
ATOM	10665	CB	ALA	1467	-54.200	15.636	-4.131	1.00	88.14
ATOM	10666	C	ALA	1467	-56.170	14.093	-4.286	1.00	99.92
ATOM	10667	O	ALA	1467	-55.459	13.327	-4.944	1.00	88.14
ATOM	10668	N	ALA	1468	-57.497	13.976	-4.205	1.00	100.00
ATOM	10669	CA	ALA	1468	-58.245	12.912	-4.886	1.00	100.00
ATOM	10670	CB	ALA	1468	-59.609	12.716	-4.215	1.00	93.84
ATOM	10671	C	ALA	1468	-58.416	13.186	-6.387	1.00	100.00
ATOM	10672	O	ALA	1468	-58.365	14.341	-6.819	1.00	89.00
ATOM	10673	N	ALA	1469	-58.600	12.114	-7.163	1.00	100.00
ATOM	10674	CA	ALA	1469	-58.785	12.158	-8.628	1.00	100.00
ATOM	10675	CB	ALA	1469	-59.699	13.324	-9.032	1.00	100.00
ATOM	10676	C	ALA	1469	-57.490	12.154	-9.477	1.00	100.00
ATOM	10677	O	ALA	1469	-56.416	11.786	-8.983	1.00	100.00
ATOM	10678	N	ALA	1470	-57.610	12.542	-10.754	1.00	100.00
ATOM	10679	CA	ALA	1470	-56.477	12.572	-11.694	1.00	100.00
ATOM	10680	CB	ALA	1470	-56.764	11.653	-12.895	1.00	98.22
ATOM	10681	C	ALA	1470	-56.063	13.977	-12.174	1.00	100.00
ATOM	10682	O	ALA	1470	-55.641	14.811	-11.367	1.00	98.22
ATOM	10683	N	ALA	1471	-56.152	14.218	-13.487	1.00	100.00
ATOM	10684	CA	ALA	1471	-55.782	15.512	-14.089	1.00	100.00
ATOM	10685	CB	ALA	1471	-54.720	15.306	-15.182	1.00	99.71
ATOM	10686	C	ALA	1471	-56.975	16.308	-14.652	1.00	100.00
ATOM	10687	O	ALA	1471	-56.984	17.546	-14.605	1.00	100.00
ATOM	10688	N	ALA	1472	-57.954	15.597	-15.213	1.00	100.00
ATOM	10689	CA	ALA	1472	-59.155	16.220	-15.777	1.00	100.00
ATOM	10690	CB	ALA	1472	-59.628	15.447	-17.018	1.00	100.00
ATOM	10691	C	ALA	1472	-60.279	16.301	-14.733	1.00	100.00
ATOM	10692	O	ALA	1472	-61.304	16.953	-14.960	1.00	100.00
ATOM	10693	N	ALA	1473	-60.075	15.633	-13.595	1.00	100.00
ATOM	10694	CA	ALA	1473	-61.044	15.616	-12.500	1.00	100.00
ATOM	10695	CB	ALA	1473	-61.263	14.183	-12.024	1.00	88.42
ATOM	10696	C	ALA	1473	-60.589	16.517	-11.336	1.00	100.00
ATOM	10697	O	ALA	1473	-59.407	16.871	-11.241	1.00	94.46
ATOM	10698	N	ALA	1474	-61.535	16.887	-10.465	1.00	100.00
ATOM	10699	CA	ALA	1474	-61.269	17.758	-9.305	1.00	100.00
ATOM	10700	CB	ALA	1474	-62.337	18.849	-9.218	1.00	100.00
ATOM	10701	C	ALA	1474	-61.152	17.015	-7.961	1.00	100.00
ATOM	10702	O	ALA	1474	-60.038	16.840	-7.455	1.00	100.00
ATOM	10703	N	ALA	1475	-62.311	16.659	-7.383	1.00	100.00
ATOM	10704	CA	ALA	1475	-62.481	15.918	-6.110	1.00	100.00
ATOM	10705	CB	ALA	1475	-61.166	15.313	-5.603	1.00	90.22
ATOM	10706	C	ALA	1475	-63.231	16.621	-4.965	1.00	100.00
ATOM	10707	O	ALA	1475	-64.211	17.333	-5.204	1.00	88.58
ATOM	10708	N	ALA	1476	-62.793	16.366	-3.726	1.00	100.00
ATOM	10709	CA	ALA	1476	-63.407	16.929	-2.512	1.00	100.00
ATOM	10710	CB	ALA	1476	-62.707	16.371	-1.272	1.00	99.57
ATOM	10711	C	ALA	1476	-63.457	18.465	-2.458	1.00	100.00

ATOM	10712	O	ALA	1476	-62.556	19.136	-2.967	1.00100.00
ATOM	10713	N	ALA	1477	-64.498	19.006	-1.813	1.00100.00
ATOM	10714	CA	ALA	1477	-64.698	20.463	-1.697	1.00100.00
ATOM	10715	CB	ALA	1477	-66.121	20.833	-2.121	1.00100.00
ATOM	10716	C	ALA	1477	-64.357	21.116	-0.339	1.00100.00
ATOM	10717	O	ALA	1477	-63.845	20.451	0.571	1.00100.00
ATOM	10718	N	ALA	1478	-64.677	22.411	-0.216	1.00100.00
ATOM	10719	CA	ALA	1478	-64.402	23.230	0.981	1.00100.00
ATOM	10720	CB	ALA	1478	-64.555	24.724	0.631	1.00100.00
ATOM	10721	C	ALA	1478	-65.138	22.907	2.308	1.00100.00
ATOM	10722	O	ALA	1478	-65.172	21.749	2.748	1.00100.00
ATOM	10723	N	ALA	1479	-65.668	23.945	2.965	1.00100.00
ATOM	10724	CA	ALA	1479	-66.374	23.792	4.244	1.00100.00
ATOM	10725	CB	ALA	1479	-65.500	24.322	5.394	1.00 97.68
ATOM	10726	C	ALA	1479	-67.771	24.439	4.290	1.00100.00
ATOM	10727	O	ALA	1479	-68.550	24.177	5.209	1.00 98.81
ATOM	10728	N	ALA	1480	-68.080	25.281	3.303	1.00100.00
ATOM	10729	CA	ALA	1480	-69.382	25.960	3.213	1.00100.00
ATOM	10730	CB	ALA	1480	-69.544	26.975	4.355	1.00100.00
ATOM	10731	C	ALA	1480	-69.546	26.645	1.847	1.00100.00
ATOM	10732	O	ALA	1480	-69.187	27.816	1.679	1.00100.00
ATOM	10733	N	ALA	1481	-70.102	25.903	0.887	1.00100.00
ATOM	10734	CA	ALA	1481	-70.313	26.374	-0.485	1.00100.00
ATOM	10735	CB	ALA	1481	-71.009	27.745	-0.497	1.00100.00
ATOM	10736	C	ALA	1481	-68.984	26.426	-1.245	1.00100.00
ATOM	10737	O	ALA	1481	-68.268	27.431	-1.198	1.00100.00
ATOM	10738	N	ALA	1482	-68.654	25.332	-1.932	1.00100.00
ATOM	10739	CA	ALA	1482	-67.405	25.245	-2.694	1.00100.00
ATOM	10740	CB	ALA	1482	-66.530	24.129	-2.126	1.00 66.96
ATOM	10741	C	ALA	1482	-67.586	25.074	-4.219	1.00100.00
ATOM	10742	O	ALA	1482	-68.294	25.864	-4.864	1.00 66.65
ATOM	10743	N	ALA	1483	-66.904	24.068	-4.782	1.00100.00
ATOM	10744	CA	ALA	1483	-66.940	23.744	-6.219	1.00100.00
ATOM	10745	CB	ALA	1483	-66.665	24.999	-7.060	1.00100.00
ATOM	10746	C	ALA	1483	-65.895	22.666	-6.546	1.00100.00
ATOM	10747	O	ALA	1483	-64.738	22.793	-6.135	1.00100.00
ATOM	10748	N	ALA	1484	-66.288	21.628	-7.295	1.00100.00
ATOM	10749	CA	ALA	1484	-65.359	20.543	-7.659	1.00100.00
ATOM	10750	CB	ALA	1484	-64.825	19.872	-6.388	1.00100.00
ATOM	10751	C	ALA	1484	-65.875	19.466	-8.638	1.00100.00
ATOM	10752	O	ALA	1484	-65.457	18.303	-8.557	1.00100.00
ATOM	10753	N	ALA	1485	-66.723	19.859	-9.592	1.00100.00
ATOM	10754	CA	ALA	1485	-67.294	18.924	-10.576	1.00100.00
ATOM	10755	CB	ALA	1485	-68.424	19.610	-11.373	1.00 91.64
ATOM	10756	C	ALA	1485	-66.260	18.327	-11.537	1.00100.00
ATOM	10757	O	ALA	1485	-65.059	18.609	-11.432	1.00 92.57
ATOM	10758	N	ALA	1486	-66.738	17.490	-12.462	1.00100.00
ATOM	10759	CA	ALA	1486	-65.885	16.854	-13.471	1.00100.00
ATOM	10760	CB	ALA	1486	-66.642	15.731	-14.173	1.00 74.35
ATOM	10761	C	ALA	1486	-65.425	17.903	-14.491	1.00100.00
ATOM	10762	O	ALA	1486	-64.778	17.582	-15.497	1.00 80.79
ATOM	10763	N	ALA	1487	-65.770	19.158	-14.208	1.00100.00
ATOM	10764	CA	ALA	1487	-65.424	20.295	-15.051	1.00100.00
ATOM	10765	CB	ALA	1487	-66.689	20.863	-15.695	1.00100.00
ATOM	10766	C	ALA	1487	-64.703	21.371	-14.223	1.00100.00
ATOM	10767	O	ALA	1487	-65.274	22.425	-13.906	1.00100.00
ATOM	10768	N	ALA	1488	-63.446	21.090	-13.876	1.00100.00

ATOM	10769	CA	ALA	1488	-62.620	22.006	-13.088	1.00100.00
ATOM	10770	CB	ALA	1488	-63.110	22.040	-11.633	1.00100.00
ATOM	10771	C	ALA	1488	-61.130	21.637	-13.138	1.00100.00
ATOM	10772	O	ALA	1488	-60.606	21.235	-14.185	1.00100.00
ATOM	10773	N	ALA	1489	-60.459	21.798	-12.000	1.00100.00
ATOM	10774	CA	ALA	1489	-59.038	21.502	-11.855	1.00100.00
ATOM	10775	CB	ALA	1489	-58.208	22.537	-12.600	1.00 78.02
ATOM	10776	C	ALA	1489	-58.735	21.547	-10.364	1.00 97.66
ATOM	10777	O	ALA	1489	-58.175	20.606	-9.800	1.00 74.79
ATOM	10778	N	ALA	1490	-59.135	22.646	-9.728	1.00100.00
ATOM	10779	CA	ALA	1490	-58.945	22.826	-8.295	1.00100.00
ATOM	10780	CB	ALA	1490	-59.124	24.310	-7.924	1.00 76.31
ATOM	10781	C	ALA	1490	-59.978	21.949	-7.571	1.00100.00
ATOM	10782	O	ALA	1490	-60.517	21.007	-8.156	1.00 78.58
ATOM	10783	N	ALA	1491	-60.245	22.248	-6.303	1.00100.00
ATOM	10784	CA	ALA	1491	-61.219	21.483	-5.527	1.00100.00
ATOM	10785	CB	ALA	1491	-60.693	20.086	-5.257	1.00 66.45
ATOM	10786	C	ALA	1491	-61.625	22.169	-4.216	1.00100.00
ATOM	10787	O	ALA	1491	-62.748	21.980	-3.736	1.00 68.58
ATOM	10788	N	ALA	1492	-60.710	22.970	-3.663	1.00100.00
ATOM	10789	CA	ALA	1492	-60.901	23.729	-2.411	1.00100.00
ATOM	10790	CB	ALA	1492	-62.327	24.332	-2.331	1.00100.00
ATOM	10791	C	ALA	1492	-60.567	22.958	-1.123	1.00100.00
ATOM	10792	O	ALA	1492	-60.966	21.800	-0.963	1.00100.00
ATOM	10793	N	ALA	1493	-59.830	23.616	-0.219	1.00100.00
ATOM	10794	CA	ALA	1493	-59.421	23.034	1.070	1.00100.00
ATOM	10795	CB	ALA	1493	-58.635	21.735	0.845	1.00100.00
ATOM	10796	C	ALA	1493	-58.590	24.000	1.930	1.00100.00
ATOM	10797	O	ALA	1493	-57.823	24.812	1.404	1.00100.00
ATOM	10798	N	ALA	1494	-58.739	23.883	3.252	1.00100.00
ATOM	10799	CA	ALA	1494	-58.017	24.708	4.232	1.00100.00
ATOM	10800	CB	ALA	1494	-58.335	26.196	4.037	1.00100.00
ATOM	10801	C	ALA	1494	-58.393	24.273	5.648	1.00100.00
ATOM	10802	O	ALA	1494	-59.444	23.663	5.860	1.00100.00
ATOM	10803	N	ALA	1495	-57.538	24.588	6.616	1.00 57.79
ATOM	10804	CA	ALA	1495	-57.809	24.216	8.003	1.00 57.48
ATOM	10805	CB	ALA	1495	-56.502	23.960	8.749	1.00 97.17
ATOM	10806	C	ALA	1495	-58.656	25.252	8.750	1.00 59.59
ATOM	10807	O	ALA	1495	-58.634	26.439	8.416	1.00100.00
ATOM	10808	N	ALA	1496	-59.400	24.773	9.749	1.00100.00
ATOM	10809	CA	ALA	1496	-60.280	25.581	10.608	1.00100.00
ATOM	10810	CB	ALA	1496	-61.078	26.598	9.784	1.00 99.99
ATOM	10811	C	ALA	1496	-61.239	24.632	11.337	1.00100.00
ATOM	10812	O	ALA	1496	-61.346	24.644	12.571	1.00 99.99
ATOM	10813	N	ALA	1497	-61.926	23.810	10.545	1.00100.00
ATOM	10814	CA	ALA	1497	-62.886	22.819	11.027	1.00100.00
ATOM	10815	CB	ALA	1497	-64.145	23.508	11.562	1.00 98.71
ATOM	10816	C	ALA	1497	-63.240	21.884	9.866	1.00100.00
ATOM	10817	O	ALA	1497	-64.005	20.931	10.035	1.00100.00
ATOM	10818	N	ALA	1498	-62.665	22.168	8.694	1.00100.00
ATOM	10819	CA	ALA	1498	-62.886	21.377	7.479	1.00100.00
ATOM	10820	CB	ALA	1498	-62.469	22.185	6.241	1.00 98.71
ATOM	10821	C	ALA	1498	-62.129	20.043	7.528	1.00100.00
ATOM	10822	O	ALA	1498	-61.000	19.941	7.031	1.00 98.71
ATOM	10823	N	ALA	1499	-62.788	19.030	8.100	1.00 99.90
ATOM	10824	CA	ALA	1499	-62.255	17.673	8.275	1.00100.00
ATOM	10825	CB	ALA	1499	-61.536	17.183	6.996	1.00 76.71

ATOM	10826	C	ALA	1499	-61.335	17.591	9.507	1.00100.00
ATOM	10827	O	ALA	1499	-61.769	17.895	10.621	1.00 76.71
ATOM	10828	N	ALA	1500	-60.082	17.178	9.305	1.00100.00
ATOM	10829	CA	ALA	1500	-59.098	17.063	10.390	1.00100.00
ATOM	10830	CB	ALA	1500	-59.193	15.685	11.051	1.00 92.26
ATOM	10831	C	ALA	1500	-57.664	17.322	9.895	1.00100.00
ATOM	10832	O	ALA	1500	-56.693	17.069	10.612	1.00 87.29
ATOM	10833	N	ALA	1501	-57.547	17.835	8.672	1.00 82.48
ATOM	10834	CA	ALA	1501	-56.257	18.144	8.057	1.00 85.37
ATOM	10835	CB	ALA	1501	-55.656	16.890	7.431	1.00 85.48
ATOM	10836	C	ALA	1501	-56.446	19.234	7.000	1.00 86.95
ATOM	10837	O	ALA	1501	-57.279	20.124	7.177	1.00 84.74
ATOM	10838	N	ALA	1502	-55.681	19.157	5.908	1.00100.00
ATOM	10839	CA	ALA	1502	-55.758	20.139	4.815	1.00100.00
ATOM	10840	CB	ALA	1502	-55.243	21.507	5.293	1.00100.00
ATOM	10841	C	ALA	1502	-54.990	19.694	3.558	1.00100.00
ATOM	10842	O	ALA	1502	-54.213	18.733	3.614	1.00100.00
ATOM	10843	N	ALA	1503	-55.204	20.399	2.439	1.00100.00
ATOM	10844	CA	ALA	1503	-54.534	20.078	1.172	1.00100.00
ATOM	10845	CB	ALA	1503	-54.870	18.667	0.756	1.00 74.11
ATOM	10846	C	ALA	1503	-54.755	21.037	-0.015	1.00100.00
ATOM	10847	O	ALA	1503	-55.573	20.770	-0.907	1.00 73.47
ATOM	10848	N	ALA	1504	-53.991	22.130	-0.036	1.00 99.87
ATOM	10849	CA	ALA	1504	-54.051	23.121	-1.113	1.00 98.85
ATOM	10850	CB	ALA	1504	-53.602	24.487	-0.594	1.00 76.41
ATOM	10851	C	ALA	1504	-53.124	22.641	-2.238	1.00 99.87
ATOM	10852	O	ALA	1504	-51.943	23.003	-2.276	1.00 80.61
ATOM	10853	N	ALA	1505	-53.687	21.813	-3.125	1.00100.00
ATOM	10854	CA	ALA	1505	-53.014	21.178	-4.276	1.00100.00
ATOM	10855	CB	ALA	1505	-51.832	22.020	-4.798	1.00 77.64
ATOM	10856	C	ALA	1505	-52.543	19.781	-3.869	1.00100.00
ATOM	10857	O	ALA	1505	-52.743	18.804	-4.600	1.00 77.69
ATOM	10858	N	ALA	1506	-51.945	19.715	-2.677	1.00100.00
ATOM	10859	CA	ALA	1506	-51.424	18.492	-2.066	1.00 97.64
ATOM	10860	CB	ALA	1506	-50.403	17.810	-2.983	1.00 89.72
ATOM	10861	C	ALA	1506	-50.780	18.822	-0.715	1.00 96.32
ATOM	10862	O	ALA	1506	-50.922	18.059	0.238	1.00 89.39
ATOM	10863	N	ALA	1507	-50.102	19.973	-0.636	1.00100.00
ATOM	10864	CA	ALA	1507	-49.415	20.426	0.587	1.00100.00
ATOM	10865	CB	ALA	1507	-48.025	20.986	0.231	1.00 50.81
ATOM	10866	C	ALA	1507	-50.190	21.429	1.475	1.00100.00
ATOM	10867	O	ALA	1507	-50.124	22.644	1.269	1.00 58.55
ATOM	10868	N	ALA	1508	-50.859	20.877	2.490	1.00 35.85
ATOM	10869	CA	ALA	1508	-51.692	21.549	3.505	1.00 38.43
ATOM	10870	CB	ALA	1508	-51.241	21.113	4.897	1.00100.00
ATOM	10871	C	ALA	1508	-52.053	23.048	3.524	1.00 39.77
ATOM	10872	O	ALA	1508	-51.910	23.771	2.534	1.00100.00
ATOM	10873	N	ALA	1509	-52.606	23.470	4.667	1.00 94.58
ATOM	10874	CA	ALA	1509	-53.041	24.846	4.918	1.00 94.58
ATOM	10875	CB	ALA	1509	-54.354	25.117	4.186	1.00 72.66
ATOM	10876	C	ALA	1509	-53.226	25.047	6.432	1.00 94.58
ATOM	10877	O	ALA	1509	-54.095	24.419	7.037	1.00 79.81
ATOM	10878	N	ALA	1510	-52.411	25.921	7.031	1.00 81.55
ATOM	10879	CA	ALA	1510	-52.459	26.197	8.473	1.00 81.41
ATOM	10880	CB	ALA	1510	-51.160	26.835	8.932	1.00 77.19
ATOM	10881	C	ALA	1510	-53.657	27.043	8.915	1.00 81.55
ATOM	10882	O	ALA	1510	-54.172	27.860	8.147	1.00 83.74

ATOM	10883	N	ALA	1511	-54.037	26.889	10.186	1.00100.00
ATOM	10884	CA	ALA	1511	-55.201	27.569	10.780	1.00100.00
ATOM	10885	CB	ALA	1511	-55.832	26.658	11.856	1.00100.00
ATOM	10886	C	ALA	1511	-55.108	29.025	11.300	1.00100.00
ATOM	10887	O	ALA	1511	-54.956	29.962	10.508	1.00100.00
ATOM	10888	N	ALA	1512	-55.287	29.196	12.619	1.00100.00
ATOM	10889	CA	ALA	1512	-55.278	30.501	13.313	1.00100.00
ATOM	10890	CB	ALA	1512	-55.859	30.351	14.724	1.00 98.60
ATOM	10891	C	ALA	1512	-53.935	31.222	13.384	1.00100.00
ATOM	10892	O	ALA	1512	-52.992	30.741	14.027	1.00100.00
ATOM	10893	N	ALA	1513	-53.904	32.423	12.802	1.00 98.10
ATOM	10894	CA	ALA	1513	-52.704	33.258	12.741	1.00 95.70
ATOM	10895	CB	ALA	1513	-52.105	33.462	14.141	1.00 90.64
ATOM	10896	C	ALA	1513	-51.676	32.622	11.799	1.00 99.78
ATOM	10897	O	ALA	1513	-50.483	32.534	12.127	1.00100.00
ATOM	10898	N	ALA	1514	-52.164	32.172	10.636	1.00100.00
ATOM	10899	CA	ALA	1514	-51.346	31.526	9.596	1.00100.00
ATOM	10900	CB	ALA	1514	-50.560	30.338	10.192	1.00100.00
ATOM	10901	C	ALA	1514	-52.173	31.056	8.378	1.00100.00
ATOM	10902	O	ALA	1514	-53.321	31.476	8.185	1.00100.00
ATOM	10903	N	ALA	1515	-51.557	30.195	7.565	1.00 74.58
ATOM	10904	CA	ALA	1515	-52.145	29.607	6.356	1.00 67.89
ATOM	10905	CB	ALA	1515	-52.730	30.689	5.443	1.00 96.54
ATOM	10906	C	ALA	1515	-51.009	28.882	5.645	1.00 66.05
ATOM	10907	O	ALA	1515	-51.228	27.934	4.887	1.00 86.11
ATOM	10908	N	ALA	1516	-49.795	29.366	5.908	1.00 91.25
ATOM	10909	CA	ALA	1516	-48.554	28.839	5.352	1.00 95.32
ATOM	10910	CB	ALA	1516	-48.122	27.602	6.107	1.00 99.24
ATOM	10911	C	ALA	1516	-48.582	28.574	3.851	1.00 95.58
ATOM	10912	O	ALA	1516	-49.239	27.639	3.380	1.00 98.97
ATOM	10913	N	ALA	1517	-47.859	29.417	3.114	1.00100.00
ATOM	10914	CA	ALA	1517	-47.765	29.312	1.664	1.00100.00
ATOM	10915	CB	ALA	1517	-46.945	30.473	1.101	1.00 67.21
ATOM	10916	C	ALA	1517	-47.133	27.973	1.291	1.00100.00
ATOM	10917	O	ALA	1517	-45.902	27.846	1.241	1.00 70.38
ATOM	10918	N	ALA	1518	-48.001	26.979	1.077	1.00100.00
ATOM	10919	CA	ALA	1518	-47.629	25.607	0.715	1.00100.00
ATOM	10920	CB	ALA	1518	-47.345	25.497	-0.787	1.00 99.73
ATOM	10921	C	ALA	1518	-46.463	25.052	1.538	1.00100.00
ATOM	10922	O	ALA	1518	-45.367	24.812	1.016	1.00 99.73
ATOM	10923	N	ALA	1519	-46.711	24.879	2.834	1.00 87.06
ATOM	10924	CA	ALA	1519	-45.725	24.350	3.769	1.00 86.68
ATOM	10925	CB	ALA	1519	-44.471	25.221	3.771	1.00 98.79
ATOM	10926	C	ALA	1519	-46.337	24.295	5.167	1.00 87.31
ATOM	10927	O	ALA	1519	-45.624	24.302	6.172	1.00100.00
ATOM	10928	N	ALA	1520	-47.666	24.242	5.221	1.00 93.79
ATOM	10929	CA	ALA	1520	-48.392	24.187	6.485	1.00 89.39
ATOM	10930	CB	ALA	1520	-49.778	24.744	6.302	1.00 17.84
ATOM	10931	C	ALA	1520	-48.462	22.777	7.069	1.00 89.88
ATOM	10932	O	ALA	1520	-48.691	22.622	8.275	1.00 22.67
ATOM	10933	N	ALA	1521	-48.282	21.776	6.195	1.00100.00
ATOM	10934	CA	ALA	1521	-48.293	20.343	6.533	1.00100.00
ATOM	10935	CB	ALA	1521	-48.298	19.502	5.261	1.00 52.13
ATOM	10936	C	ALA	1521	-47.065	19.994	7.359	1.00100.00
ATOM	10937	O	ALA	1521	-47.119	19.148	8.253	1.00 60.93
ATOM	10938	N	ALA	1522	-45.945	20.620	7.014	1.00100.00
ATOM	10939	CA	ALA	1522	-44.691	20.414	7.723	1.00100.00

ATOM	10940	CB	ALA	1522	-43.616	19.939	6.745	1.00	92.52
ATOM	10941	C	ALA	1522	-44.267	21.722	8.412	1.00	100.00
ATOM	10942	O	ALA	1522	-43.088	21.944	8.673	1.00	95.34
ATOM	10943	N	ALA	1523	-45.249	22.559	8.745	1.00	100.00
ATOM	10944	CA	ALA	1523	-45.017	23.857	9.386	1.00	100.00
ATOM	10945	CB	ALA	1523	-46.329	24.640	9.448	1.00	72.19
ATOM	10946	C	ALA	1523	-44.351	23.831	10.769	1.00	100.00
ATOM	10947	O	ALA	1523	-43.218	24.297	10.930	1.00	72.09
ATOM	10948	N	ALA	1524	-45.065	23.295	11.758	1.00	97.08
ATOM	10949	CA	ALA	1524	-44.579	23.215	13.136	1.00	99.69
ATOM	10950	CB	ALA	1524	-45.702	22.745	14.057	1.00	72.30
ATOM	10951	C	ALA	1524	-43.344	22.338	13.328	1.00	99.69
ATOM	10952	O	ALA	1524	-42.844	22.204	14.448	1.00	79.43
ATOM	10953	N	ALA	1525	-42.838	21.764	12.239	1.00	100.00
ATOM	10954	CA	ALA	1525	-41.665	20.898	12.319	1.00	100.00
ATOM	10955	CB	ALA	1525	-42.089	19.430	12.235	1.00	100.00
ATOM	10956	C	ALA	1525	-40.554	21.190	11.304	1.00	100.00
ATOM	10957	O	ALA	1525	-39.454	21.600	11.694	1.00	100.00
ATOM	10958	N	ALA	1526	-40.839	20.982	10.014	1.00	100.00
ATOM	10959	CA	ALA	1526	-39.846	21.198	8.952	1.00	100.00
ATOM	10960	CB	ALA	1526	-39.092	19.888	8.676	1.00	100.00
ATOM	10961	C	ALA	1526	-40.362	21.808	7.628	1.00	100.00
ATOM	10962	O	ALA	1526	-40.341	21.154	6.577	1.00	100.00
ATOM	10963	N	ALA	1527	-40.802	23.066	7.693	1.00	100.00
ATOM	10964	CA	ALA	1527	-41.305	23.813	6.534	1.00	100.00
ATOM	10965	CB	ALA	1527	-42.433	23.056	5.836	1.00	100.00
ATOM	10966	C	ALA	1527	-41.781	25.203	6.963	1.00	100.00
ATOM	10967	O	ALA	1527	-42.119	25.415	8.133	1.00	100.00
ATOM	10968	N	ALA	1528	-41.810	26.131	6.003	1.00	99.66
ATOM	10969	CA	ALA	1528	-42.215	27.524	6.221	1.00	99.66
ATOM	10970	CB	ALA	1528	-43.539	27.599	7.004	1.00	95.12
ATOM	10971	C	ALA	1528	-41.112	28.332	6.926	1.00	99.66
ATOM	10972	O	ALA	1528	-41.161	28.552	8.144	1.00	99.86
ATOM	10973	N	ALA	1529	-40.123	28.775	6.146	1.00	100.00
ATOM	10974	CA	ALA	1529	-38.995	29.546	6.670	1.00	100.00
ATOM	10975	CB	ALA	1529	-37.689	28.809	6.401	1.00	100.00
ATOM	10976	C	ALA	1529	-38.916	30.967	6.113	1.00	100.00
ATOM	10977	O	ALA	1529	-38.439	31.880	6.798	1.00	100.00
ATOM	10978	N	ALA	1530	-39.361	31.141	4.868	1.00	100.00
ATOM	10979	CA	ALA	1530	-39.350	32.446	4.202	1.00	100.00
ATOM	10980	CB	ALA	1530	-39.492	32.272	2.687	1.00	73.22
ATOM	10981	C	ALA	1530	-40.441	33.380	4.731	1.00	100.00
ATOM	10982	O	ALA	1530	-40.457	34.570	4.405	1.00	73.59
ATOM	10983	N	ALA	1531	-41.335	32.837	5.559	1.00	100.00
ATOM	10984	CA	ALA	1531	-42.442	33.597	6.139	1.00	100.00
ATOM	10985	CB	ALA	1531	-43.680	32.709	6.261	1.00	99.91
ATOM	10986	C	ALA	1531	-42.110	34.224	7.493	1.00	100.00
ATOM	10987	O	ALA	1531	-42.333	33.611	8.542	1.00	99.63
ATOM	10988	N	ALA	1532	-41.599	35.457	7.451	1.00	99.94
ATOM	10989	CA	ALA	1532	-41.225	36.230	8.640	1.00	99.94
ATOM	10990	CB	ALA	1532	-42.473	36.671	9.412	1.00	100.00
ATOM	10991	C	ALA	1532	-40.249	35.512	9.567	1.00	99.94
ATOM	10992	O	ALA	1532	-39.045	35.474	9.301	1.00	100.00
ATOM	10993	N	ALA	1533	-40.780	34.917	10.636	1.00	100.00
ATOM	10994	CA	ALA	1533	-39.960	34.210	11.617	1.00	100.00
ATOM	10995	CB	ALA	1533	-39.793	35.078	12.868	1.00	67.24
ATOM	10996	C	ALA	1533	-40.480	32.821	12.006	1.00	100.00

ATOM	10997	O	ALA	1533	-41.417	32.287	11.399	1.00	57.12
ATOM	10998	N	GLU	1534	-39.825	32.239	13.012	1.00	100.00
ATOM	10999	CA	GLU	1534	-40.163	30.925	13.549	1.00	99.42
ATOM	11000	CB	GLU	1534	-39.027	29.933	13.293	1.00	93.92
ATOM	11001	CG	GLU	1534	-38.699	29.713	11.827	1.00	99.19
ATOM	11002	CD	GLU	1534	-37.708	28.584	11.621	1.00	99.58
ATOM	11003	OE1	GLU	1534	-38.078	27.417	11.881	1.00	96.89
ATOM	11004	OE2	GLU	1534	-36.564	28.864	11.200	1.00	100.00
ATOM	11005	C	GLU	1534	-40.361	31.071	15.051	1.00	97.11
ATOM	11006	O	GLU	1534	-39.407	31.350	15.775	1.00	88.32
ATOM	11007	N	MET	1535	-41.592	30.873	15.517	1.00	92.54
ATOM	11008	CA	MET	1535	-41.905	30.995	16.943	1.00	96.88
ATOM	11009	CB	MET	1535	-43.423	30.969	17.170	1.00	99.86
ATOM	11010	CG	MET	1535	-44.183	32.179	16.615	1.00	99.86
ATOM	11011	SD	MET	1535	-45.950	32.161	17.046	1.00	99.86
ATOM	11012	CE	MET	1535	-46.618	31.084	15.754	1.00	99.86
ATOM	11013	C	MET	1535	-41.228	29.933	17.819	1.00	97.07
ATOM	11014	O	MET	1535	-41.346	29.964	19.045	1.00	98.82
ATOM	11015	N	CYS	1536	-40.487	29.024	17.181	1.00	100.00
ATOM	11016	CA	CYS	1536	-39.768	27.937	17.864	1.00	100.00
ATOM	11017	C	CYS	1536	-38.798	28.496	18.894	1.00	100.00
ATOM	11018	O	CYS	1536	-38.314	27.777	19.770	1.00	75.99
ATOM	11019	CB	CYS	1536	-38.951	27.106	16.849	1.00	86.24
ATOM	11020	SG	CYS	1536	-37.199	27.622	16.677	1.00	86.24
ATOM	11021	N	SER	1537	-38.538	29.793	18.770	1.00	100.00
ATOM	11022	CA	SER	1537	-37.596	30.503	19.614	1.00	100.00
ATOM	11023	CB	SER	1537	-37.089	31.749	18.873	1.00	65.75
ATOM	11024	OG	SER	1537	-36.258	31.409	17.776	1.00	55.09
ATOM	11025	C	SER	1537	-37.947	30.877	21.057	1.00	100.00
ATOM	11026	O	SER	1537	-38.955	30.455	21.647	1.00	60.36
ATOM	11027	N	GLY	1538	-37.029	31.671	21.594	1.00	100.00
ATOM	11028	CA	GLY	1538	-37.051	32.196	22.942	1.00	100.00
ATOM	11029	C	GLY	1538	-35.663	32.806	23.022	1.00	100.00
ATOM	11030	O	GLY	1538	-35.375	33.653	23.872	1.00	100.00
ATOM	11031	N	HIS	1539	-34.818	32.351	22.091	1.00	100.00
ATOM	11032	CA	HIS	1539	-33.437	32.778	21.926	1.00	100.00
ATOM	11033	CB	HIS	1539	-33.365	34.307	21.848	1.00	100.00
ATOM	11034	CG	HIS	1539	-32.548	34.809	20.701	1.00	100.00
ATOM	11035	CD2	HIS	1539	-31.586	35.760	20.638	1.00	100.00
ATOM	11036	ND1	HIS	1539	-32.670	34.304	19.423	1.00	100.00
ATOM	11037	CE1	HIS	1539	-31.821	34.919	18.626	1.00	100.00
ATOM	11038	NE2	HIS	1539	-31.147	35.811	19.337	1.00	100.00
ATOM	11039	C	HIS	1539	-32.458	32.227	22.974	1.00	100.00
ATOM	11040	O	HIS	1539	-32.793	31.317	23.748	1.00	100.00
ATOM	11041	N	GLY	1540	-31.235	32.761	22.957	1.00	92.13
ATOM	11042	CA	GLY	1540	-30.209	32.335	23.887	1.00	83.72
ATOM	11043	C	GLY	1540	-29.913	30.870	23.687	1.00	87.37
ATOM	11044	O	GLY	1540	-30.445	30.023	24.410	1.00	99.30
ATOM	11045	N	GLN	1541	-29.116	30.576	22.660	1.00	98.30
ATOM	11046	CA	GLN	1541	-28.724	29.206	22.325	1.00	100.00
ATOM	11047	CB	GLN	1541	-28.063	28.518	23.531	1.00	59.49
ATOM	11048	CG	GLN	1541	-26.546	28.739	23.667	1.00	56.85
ATOM	11049	CD	GLN	1541	-26.136	30.163	24.056	1.00	53.41
ATOM	11050	OE1	GLN	1541	-26.102	30.520	25.241	1.00	51.20
ATOM	11051	NE2	GLN	1541	-25.775	30.965	23.055	1.00	41.82
ATOM	11052	C	GLN	1541	-29.851	28.325	21.764	1.00	100.00
ATOM	11053	O	GLN	1541	-29.592	27.249	21.221	1.00	56.99

ATOM	11054	N	CYS	1542	-31.096	28.777	21.891	1.00100.00
ATOM	11055	CA	CYS	1542	-32.236	28.014	21.384	1.00100.00
ATOM	11056	C	CYS	1542	-32.267	28.026	19.851	1.00100.00
ATOM	11057	O	CYS	1542	-32.224	29.099	19.243	1.00 99.17
ATOM	11058	CB	CYS	1542	-33.540	28.582	21.948	1.00 98.15
ATOM	11059	SG	CYS	1542	-35.054	27.866	21.230	1.00 99.17
ATOM	11060	N	SER	1543	-32.324	26.834	19.243	1.00100.00
ATOM	11061	CA	SER	1543	-32.352	26.664	17.774	1.00100.00
ATOM	11062	CB	SER	1543	-31.509	25.447	17.365	1.00 82.48
ATOM	11063	OG	SER	1543	-30.175	25.567	17.837	1.00 81.16
ATOM	11064	C	SER	1543	-33.778	26.563	17.189	1.00100.00
ATOM	11065	O	SER	1543	-34.645	27.355	17.566	1.00 86.27
ATOM	11066	N	CYS	1544	-34.024	25.630	16.261	1.00 97.84
ATOM	11067	CA	CYS	1544	-35.372	25.497	15.689	1.00 94.51
ATOM	11068	C	CYS	1544	-36.019	24.115	15.477	1.00 92.33
ATOM	11069	O	CYS	1544	-35.446	23.073	15.804	1.00100.00
ATOM	11070	CB	CYS	1544	-35.537	26.373	14.443	1.00100.00
ATOM	11071	SG	CYS	1544	-36.806	27.669	14.676	1.00100.00
ATOM	11072	N	GLY	1545	-37.226	24.140	14.913	1.00 96.40
ATOM	11073	CA	GLY	1545	-38.020	22.942	14.705	1.00 92.54
ATOM	11074	C	GLY	1545	-39.058	23.055	15.812	1.00 95.30
ATOM	11075	O	GLY	1545	-40.277	23.177	15.547	1.00 2.00
ATOM	11076	N	ASP	1546	-38.523	23.138	17.043	1.00 96.61
ATOM	11077	CA	ASP	1546	-39.269	23.278	18.302	1.00 97.24
ATOM	11078	CB	ASP	1546	-40.043	21.996	18.620	1.00 75.98
ATOM	11079	CG	ASP	1546	-41.467	22.271	19.066	1.00 79.83
ATOM	11080	OD1	ASP	1546	-41.917	21.637	20.045	1.00 82.76
ATOM	11081	OD2	ASP	1546	-42.138	23.115	18.429	1.00 68.85
ATOM	11082	C	ASP	1546	-38.384	23.660	19.517	1.00 97.39
ATOM	11083	O	ASP	1546	-38.862	23.653	20.653	1.00 76.43
ATOM	11084	N	CYS	1547	-37.104	23.961	19.258	1.00 81.20
ATOM	11085	CA	CYS	1547	-36.075	24.379	20.252	1.00 80.19
ATOM	11086	C	CYS	1547	-35.143	23.314	20.869	1.00 75.30
ATOM	11087	O	CYS	1547	-35.471	22.674	21.877	1.00 77.99
ATOM	11088	CB	CYS	1547	-36.666	25.276	21.357	1.00 98.25
ATOM	11089	SG	CYS	1547	-35.439	26.209	22.347	1.00100.00
ATOM	11090	N	LEU	1548	-33.946	23.200	20.289	1.00 96.18
ATOM	11091	CA	LEU	1548	-32.924	22.245	20.725	1.00 97.24
ATOM	11092	CB	LEU	1548	-32.773	21.115	19.683	1.00 37.55
ATOM	11093	CG	LEU	1548	-32.733	21.397	18.165	1.00 38.17
ATOM	11094	CD1	LEU	1548	-31.299	21.439	17.628	1.00 36.49
ATOM	11095	CD2	LEU	1548	-33.500	20.302	17.441	1.00 38.88
ATOM	11096	C	LEU	1548	-31.568	22.912	21.018	1.00 98.61
ATOM	11097	O	LEU	1548	-30.777	23.159	20.107	1.00 43.68
ATOM	11098	N	CYS	1549	-31.294	23.153	22.302	1.00 69.77
ATOM	11099	CA	CYS	1549	-30.057	23.798	22.756	1.00 66.64
ATOM	11100	C	CYS	1549	-28.779	23.218	22.170	1.00 61.47
ATOM	11101	O	CYS	1549	-28.774	22.121	21.620	1.00 40.94
ATOM	11102	CB	CYS	1549	-29.953	23.742	24.274	1.00 50.55
ATOM	11103	SG	CYS	1549	-31.515	24.053	25.145	1.00 63.12
ATOM	11104	N	ASP	1550	-27.687	23.955	22.331	1.00 65.61
ATOM	11105	CA	ASP	1550	-26.390	23.536	21.811	1.00 60.98
ATOM	11106	CB	ASP	1550	-25.509	24.761	21.540	1.00 72.61
ATOM	11107	CG	ASP	1550	-26.172	25.769	20.625	1.00 73.29
ATOM	11108	OD1	ASP	1550	-25.624	26.047	19.540	1.00 65.23
ATOM	11109	OD2	ASP	1550	-27.241	26.290	20.995	1.00 68.01
ATOM	11110	C	ASP	1550	-25.675	22.618	22.788	1.00 58.19

ATOM	11111	O	ASP	1550	-26.261	22.172	23.777	1.00	69.82
ATOM	11112	N	SER	1551	-24.417	22.304	22.479	1.00	50.67
ATOM	11113	CA	SER	1551	-23.596	21.472	23.353	1.00	47.55
ATOM	11114	CB	SER	1551	-22.244	21.156	22.701	1.00	36.63
ATOM	11115	OG	SER	1551	-22.401	20.604	21.410	1.00	44.33
ATOM	11116	C	SER	1551	-23.353	22.345	24.576	1.00	39.82
ATOM	11117	O	SER	1551	-23.325	23.568	24.465	1.00	21.29
ATOM	11118	N	ASP	1552	-23.201	21.738	25.743	1.00	57.27
ATOM	11119	CA	ASP	1552	-22.949	22.518	26.952	1.00	54.22
ATOM	11120	CB	ASP	1552	-21.628	23.285	26.814	1.00	16.62
ATOM	11121	CG	ASP	1552	-20.434	22.359	26.654	1.00	27.20
ATOM	11122	OD1	ASP	1552	-20.190	21.864	25.527	1.00	32.06
ATOM	11123	OD2	ASP	1552	-19.750	22.116	27.668	1.00	29.49
ATOM	11124	C	ASP	1552	-24.081	23.483	27.302	1.00	49.77
ATOM	11125	O	ASP	1552	-23.847	24.535	27.894	1.00	12.39
ATOM	11126	N	TRP	1553	-25.304	23.109	26.933	1.00	42.49
ATOM	11127	CA	TRP	1553	-26.498	23.912	27.202	1.00	45.47
ATOM	11128	CB	TRP	1553	-26.779	24.889	26.045	1.00	65.38
ATOM	11129	CG	TRP	1553	-25.784	26.020	25.963	1.00	70.86
ATOM	11130	CD2	TRP	1553	-25.633	27.104	26.893	1.00	71.40
ATOM	11131	CE2	TRP	1553	-24.544	27.883	26.457	1.00	67.67
ATOM	11132	CE3	TRP	1553	-26.331	27.494	28.046	1.00	74.46
ATOM	11133	CD1	TRP	1553	-24.797	26.187	25.028	1.00	71.68
ATOM	11134	NE1	TRP	1553	-24.044	27.299	25.323	1.00	68.50
ATOM	11135	CZ2	TRP	1553	-24.117	29.017	27.147	1.00	61.80
ATOM	11136	CZ3	TRP	1553	-25.905	28.621	28.727	1.00	63.16
ATOM	11137	CH2	TRP	1553	-24.816	29.374	28.270	1.00	60.30
ATOM	11138	C	TRP	1553	-27.690	22.991	27.399	1.00	46.21
ATOM	11139	O	TRP	1553	-27.817	21.982	26.710	1.00	63.71
ATOM	11140	N	THR	1554	-28.550	23.325	28.355	1.00	70.54
ATOM	11141	CA	THR	1554	-29.736	22.520	28.631	1.00	72.85
ATOM	11142	CB	THR	1554	-29.464	21.425	29.684	1.00	43.44
ATOM	11143	OG1	THR	1554	-28.758	21.982	30.804	1.00	60.10
ATOM	11144	CG2	THR	1554	-28.663	20.292	29.070	1.00	26.12
ATOM	11145	C	THR	1554	-30.942	23.341	29.061	1.00	80.35
ATOM	11146	O	THR	1554	-30.864	24.563	29.202	1.00	62.32
ATOM	11147	N	GLY	1555	-32.058	22.652	29.274	1.00	68.73
ATOM	11148	CA	GLY	1555	-33.280	23.323	29.669	1.00	70.88
ATOM	11149	C	GLY	1555	-34.143	23.647	28.465	1.00	71.75
ATOM	11150	O	GLY	1555	-33.669	23.668	27.330	1.00	17.86
ATOM	11151	N	TYR	1556	-35.420	23.900	28.717	1.00	30.96
ATOM	11152	CA	TYR	1556	-36.367	24.219	27.661	1.00	33.81
ATOM	11153	CB	TYR	1556	-37.755	24.394	28.295	1.00	76.67
ATOM	11154	CG	TYR	1556	-38.871	24.800	27.357	1.00	80.58
ATOM	11155	CD1	TYR	1556	-39.997	25.462	27.847	1.00	82.26
ATOM	11156	CE1	TYR	1556	-41.035	25.846	27.000	1.00	84.16
ATOM	11157	CD2	TYR	1556	-38.810	24.527	25.985	1.00	84.16
ATOM	11158	CE2	TYR	1556	-39.844	24.909	25.125	1.00	84.16
ATOM	11159	CZ	TYR	1556	-40.956	25.568	25.642	1.00	84.16
ATOM	11160	OH	TYR	1556	-41.989	25.943	24.809	1.00	84.16
ATOM	11161	C	TYR	1556	-35.940	25.475	26.884	1.00	29.57
ATOM	11162	O	TYR	1556	-35.809	25.452	25.656	1.00	55.44
ATOM	11163	N	TYR	1557	-35.697	26.556	27.620	1.00	64.81
ATOM	11164	CA	TYR	1557	-35.302	27.831	27.032	1.00	71.45
ATOM	11165	CB	TYR	1557	-35.583	28.965	28.021	1.00	73.41
ATOM	11166	CG	TYR	1557	-37.002	29.000	28.562	1.00	70.38
ATOM	11167	CD1	TYR	1557	-37.347	28.285	29.711	1.00	70.68

ATOM	11168	CE1	TYR	1557	-38.643	28.324	30.226	1.00	66.50
ATOM	11169	CD2	TYR	1557	-37.994	29.760	27.938	1.00	63.59
ATOM	11170	CE2	TYR	1557	-39.293	29.806	28.446	1.00	60.41
ATOM	11171	CZ	TYR	1557	-39.611	29.085	29.591	1.00	67.79
ATOM	11172	OH	TYR	1557	-40.894	29.120	30.103	1.00	68.12
ATOM	11173	C	TYR	1557	-33.825	27.840	26.658	1.00	75.60
ATOM	11174	O	TYR	1557	-33.397	28.601	25.783	1.00	79.72
ATOM	11175	N	CYS	1558	-33.067	26.985	27.339	1.00	100.00
ATOM	11176	CA	CYS	1558	-31.626	26.835	27.157	1.00	100.00
ATOM	11177	C	CYS	1558	-30.845	27.790	28.044	1.00	94.27
ATOM	11178	O	CYS	1558	-29.800	28.305	27.640	1.00	30.85
ATOM	11179	CB	CYS	1558	-31.213	27.020	25.698	1.00	51.29
ATOM	11180	SG	CYS	1558	-32.086	25.915	24.554	1.00	62.41
ATOM	11181	N	ASN	1559	-31.368	28.040	29.244	1.00	41.59
ATOM	11182	CA	ASN	1559	-30.701	28.916	30.194	1.00	37.18
ATOM	11183	CB	ASN	1559	-31.668	29.391	31.275	1.00	71.84
ATOM	11184	CG	ASN	1559	-32.824	30.165	30.724	1.00	79.11
ATOM	11185	OD1	ASN	1559	-32.663	31.035	29.865	1.00	94.26
ATOM	11186	ND2	ASN	1559	-34.006	29.855	31.241	1.00	76.26
ATOM	11187	C	ASN	1559	-29.605	28.128	30.888	1.00	31.73
ATOM	11188	O	ASN	1559	-28.475	28.599	31.037	1.00	50.89
ATOM	11189	N	CYS	1560	-29.968	26.922	31.317	1.00	28.03
ATOM	11190	CA	CYS	1560	-29.072	26.038	32.044	1.00	29.95
ATOM	11191	C	CYS	1560	-27.746	25.692	31.382	1.00	29.87
ATOM	11192	O	CYS	1560	-27.618	25.677	30.160	1.00	39.35
ATOM	11193	CB	CYS	1560	-29.792	24.757	32.412	1.00	35.72
ATOM	11194	SG	CYS	1560	-28.997	23.958	33.825	1.00	59.81
ATOM	11195	N	THR	1561	-26.770	25.357	32.214	1.00	38.84
ATOM	11196	CA	THR	1561	-25.445	25.023	31.732	1.00	39.54
ATOM	11197	CB	THR	1561	-24.424	26.049	32.219	1.00	44.25
ATOM	11198	OG1	THR	1561	-25.102	27.230	32.658	1.00	52.39
ATOM	11199	CG2	THR	1561	-23.470	26.408	31.103	1.00	46.81
ATOM	11200	C	THR	1561	-25.012	23.669	32.262	1.00	45.66
ATOM	11201	O	THR	1561	-25.687	23.071	33.106	1.00	60.62
ATOM	11202	N	THR	1562	-23.867	23.204	31.768	1.00	42.51
ATOM	11203	CA	THR	1562	-23.290	21.930	32.184	1.00	39.82
ATOM	11204	CB	THR	1562	-22.829	21.115	30.967	1.00	60.62
ATOM	11205	OG1	THR	1562	-21.676	21.730	30.379	1.00	68.56
ATOM	11206	CG2	THR	1562	-23.950	21.039	29.932	1.00	49.23
ATOM	11207	C	THR	1562	-22.092	22.182	33.103	1.00	37.23
ATOM	11208	O	THR	1562	-21.701	21.320	33.900	1.00	62.70
ATOM	11209	N	ARG	1563	-21.560	23.398	33.002	1.00	37.91
ATOM	11210	CA	ARG	1563	-20.408	23.879	33.765	1.00	33.89
ATOM	11211	CB	ARG	1563	-20.123	25.323	33.345	1.00	33.46
ATOM	11212	CG	ARG	1563	-20.004	25.511	31.833	1.00	43.31
ATOM	11213	CD	ARG	1563	-19.767	26.964	31.463	1.00	42.42
ATOM	11214	NE	ARG	1563	-18.695	27.541	32.271	1.00	44.75
ATOM	11215	CZ	ARG	1563	-18.404	28.839	32.339	1.00	46.78
ATOM	11216	NH1	ARG	1563	-19.097	29.722	31.628	1.00	44.61
ATOM	11217	NH2	ARG	1563	-17.466	29.266	33.181	1.00	43.86
ATOM	11218	C	ARG	1563	-20.529	23.787	35.301	1.00	28.11
ATOM	11219	O	ARG	1563	-21.507	24.233	35.896	1.00	21.34
ATOM	11220	N	THR	1564	-19.543	23.169	35.936	1.00	55.29
ATOM	11221	CA	THR	1564	-19.553	23.049	37.387	1.00	61.86
ATOM	11222	CB	THR	1564	-19.342	21.575	37.863	1.00	33.31
ATOM	11223	OG1	THR	1564	-18.152	21.030	37.270	1.00	39.23
ATOM	11224	CG2	THR	1564	-20.554	20.711	37.504	1.00	27.23

ATOM	11225	C	THR	1564	-18.463	23.941	37.964	1.00	61.68
ATOM	11226	O	THR	1564	-18.326	24.067	39.186	1.00	32.66
ATOM	11227	N	ASP	1565	-17.719	24.602	37.080	1.00	21.95
ATOM	11228	CA	ASP	1565	-16.638	25.462	37.536	1.00	25.85
ATOM	11229	CB	ASP	1565	-15.698	25.885	36.392	1.00	32.08
ATOM	11230	CG	ASP	1565	-16.225	27.054	35.570	1.00	39.02
ATOM	11231	OD1	ASP	1565	-15.794	28.201	35.807	1.00	37.33
ATOM	11232	OD2	ASP	1565	-17.030	26.820	34.654	1.00	47.57
ATOM	11233	C	ASP	1565	-17.141	26.665	38.299	1.00	25.31
ATOM	11234	O	ASP	1565	-16.420	27.205	39.122	1.00	24.44
ATOM	11235	N	THR	1566	-18.385	27.065	38.051	1.00	18.57
ATOM	11236	CA	THR	1566	-18.962	28.218	38.738	1.00	12.98
ATOM	11237	CB	THR	1566	-20.116	28.815	37.919	1.00	24.31
ATOM	11238	OG1	THR	1566	-19.642	29.122	36.601	1.00	21.78
ATOM	11239	CG2	THR	1566	-20.640	30.100	38.571	1.00	34.61
ATOM	11240	C	THR	1566	-19.409	27.808	40.143	1.00	17.12
ATOM	11241	O	THR	1566	-19.772	28.636	40.985	1.00	33.59
ATOM	11242	N	CYS	1567	-19.341	26.509	40.392	1.00	32.04
ATOM	11243	CA	CYS	1567	-19.690	25.950	41.681	1.00	41.98
ATOM	11244	C	CYS	1567	-18.369	25.447	42.287	1.00	51.08
ATOM	11245	O	CYS	1567	-18.357	24.743	43.298	1.00	48.72
ATOM	11246	CB	CYS	1567	-20.704	24.825	41.467	1.00	40.80
ATOM	11247	SG	CYS	1567	-22.177	25.384	40.540	1.00	60.21
ATOM	11248	N	MET	1568	-17.267	25.919	41.695	1.00	75.90
ATOM	11249	CA	MET	1568	-15.884	25.577	42.051	1.00	76.50
ATOM	11250	CB	MET	1568	-14.900	26.590	41.443	1.00	94.00
ATOM	11251	CG	MET	1568	-15.213	28.068	41.709	1.00	100.00
ATOM	11252	SD	MET	1568	-13.905	29.193	41.114	1.00	100.00
ATOM	11253	CE	MET	1568	-14.123	29.150	39.311	1.00	97.87
ATOM	11254	C	MET	1568	-15.500	25.340	43.502	1.00	74.75
ATOM	11255	O	MET	1568	-14.900	24.311	43.812	1.00	83.92
ATOM	11256	N	SER	1569	-15.771	26.321	44.361	1.00	76.94
ATOM	11257	CA	SER	1569	-15.448	26.244	45.790	1.00	75.94
ATOM	11258	CB	SER	1569	-15.927	24.916	46.383	1.00	35.27
ATOM	11259	OG	SER	1569	-15.330	24.634	47.636	1.00	27.26
ATOM	11260	C	SER	1569	-13.972	26.473	46.126	1.00	79.69
ATOM	11261	O	SER	1569	-13.070	26.082	45.379	1.00	43.36
ATOM	11262	N	SER	1570	-13.750	27.098	47.279	1.00	93.82
ATOM	11263	CA	SER	1570	-12.416	27.413	47.776	1.00	99.07
ATOM	11264	CB	SER	1570	-12.542	28.154	49.116	1.00	95.89
ATOM	11265	OG	SER	1570	-11.328	28.776	49.494	1.00	94.46
ATOM	11266	C	SER	1570	-11.587	26.137	47.945	1.00	98.13
ATOM	11267	O	SER	1570	-10.523	25.990	47.339	1.00	92.59
ATOM	11268	N	ASN	1571	-12.112	25.207	48.740	1.00	100.00
ATOM	11269	CA	ASN	1571	-11.456	23.929	49.018	1.00	95.36
ATOM	11270	CB	ASN	1571	-12.071	23.287	50.269	1.00	59.51
ATOM	11271	CG	ASN	1571	-13.590	23.165	50.187	1.00	56.24
ATOM	11272	OD1	ASN	1571	-14.137	22.433	49.351	1.00	50.21
ATOM	11273	ND2	ASN	1571	-14.276	23.881	51.066	1.00	55.22
ATOM	11274	C	ASN	1571	-11.491	22.930	47.853	1.00	93.70
ATOM	11275	O	ASN	1571	-10.624	22.060	47.747	1.00	56.29
ATOM	11276	N	GLY	1572	-12.510	23.038	47.005	1.00	78.14
ATOM	11277	CA	GLY	1572	-12.626	22.134	45.877	1.00	79.93
ATOM	11278	C	GLY	1572	-13.971	21.437	45.798	1.00	81.38
ATOM	11279	O	GLY	1572	-14.549	21.331	44.715	1.00	100.00
ATOM	11280	N	LEU	1573	-14.473	20.963	46.936	1.00	91.21
ATOM	11281	CA	LEU	1573	-15.761	20.272	46.977	1.00	85.10

ATOM	11282	CB	LEU	1573	-16.118	19.921	48.426	1.00	66.01
ATOM	11283	CG	LEU	1573	-16.908	18.631	48.677	1.00	65.19
ATOM	11284	CD1	LEU	1573	-17.097	18.458	50.170	1.00	53.82
ATOM	11285	CD2	LEU	1573	-18.257	18.641	47.965	1.00	58.86
ATOM	11286	C	LEU	1573	-16.843	21.163	46.359	1.00	81.81
ATOM	11287	O	LEU	1573	-16.869	22.360	46.601	1.00	54.50
ATOM	11288	N	LEU	1574	-17.711	20.580	45.539	1.00	79.38
ATOM	11289	CA	LEU	1574	-18.788	21.328	44.884	1.00	81.78
ATOM	11290	CB	LEU	1574	-19.577	20.376	43.968	1.00	55.63
ATOM	11291	CG	LEU	1574	-20.589	20.846	42.914	1.00	52.73
ATOM	11292	CD1	LEU	1574	-20.989	19.671	42.032	1.00	57.50
ATOM	11293	CD2	LEU	1574	-21.813	21.431	43.568	1.00	51.73
ATOM	11294	C	LEU	1574	-19.716	22.004	45.915	1.00	87.80
ATOM	11295	O	LEU	1574	-20.277	21.333	46.792	1.00	65.34
ATOM	11296	N	CYS	1575	-19.861	23.329	45.792	1.00	52.33
ATOM	11297	CA	CYS	1575	-20.691	24.165	46.680	1.00	48.86
ATOM	11298	C	CYS	1575	-20.372	24.008	48.164	1.00	48.28
ATOM	11299	O	CYS	1575	-21.284	23.928	48.988	1.00	55.53
ATOM	11300	CB	CYS	1575	-22.185	23.898	46.479	1.00	47.07
ATOM	11301	SG	CYS	1575	-22.824	24.227	44.815	1.00	46.57
ATOM	11302	N	SER	1576	-19.083	23.989	48.499	1.00	35.55
ATOM	11303	CA	SER	1576	-18.611	23.827	49.880	1.00	30.07
ATOM	11304	CB	SER	1576	-18.904	25.082	50.709	1.00	36.19
ATOM	11305	OG	SER	1576	-18.083	26.166	50.317	1.00	39.01
ATOM	11306	C	SER	1576	-19.142	22.593	50.621	1.00	30.44
ATOM	11307	O	SER	1576	-18.915	22.452	51.821	1.00	36.49
ATOM	11308	N	GLY	1577	-19.837	21.706	49.909	1.00	55.22
ATOM	11309	CA	GLY	1577	-20.399	20.515	50.530	1.00	54.49
ATOM	11310	C	GLY	1577	-21.731	20.753	51.232	1.00	51.67
ATOM	11311	O	GLY	1577	-22.348	19.822	51.749	1.00	80.51
ATOM	11312	N	ARG	1578	-22.186	22.001	51.233	1.00	56.40
ATOM	11313	CA	ARG	1578	-23.441	22.361	51.883	1.00	59.97
ATOM	11314	CB	ARG	1578	-23.256	23.639	52.707	1.00	49.54
ATOM	11315	CG	ARG	1578	-22.168	23.553	53.746	1.00	60.50
ATOM	11316	CD	ARG	1578	-22.038	24.851	54.490	1.00	61.35
ATOM	11317	NE	ARG	1578	-21.155	24.721	55.640	1.00	65.11
ATOM	11318	CZ	ARG	1578	-20.060	25.450	55.823	1.00	66.08
ATOM	11319	NH1	ARG	1578	-19.712	26.361	54.925	1.00	49.18
ATOM	11320	NH2	ARG	1578	-19.320	25.275	56.910	1.00	63.97
ATOM	11321	C	ARG	1578	-24.571	22.577	50.881	1.00	59.63
ATOM	11322	O	ARG	1578	-25.719	22.818	51.276	1.00	46.30
ATOM	11323	N	GLY	1579	-24.241	22.511	49.592	1.00	43.34
ATOM	11324	CA	GLY	1579	-25.243	22.721	48.562	1.00	43.89
ATOM	11325	C	GLY	1579	-24.930	22.042	47.244	1.00	47.08
ATOM	11326	O	GLY	1579	-23.898	21.384	47.113	1.00	39.69
ATOM	11327	N	LYS	1580	-25.793	22.252	46.251	1.00	59.15
ATOM	11328	CA	LYS	1580	-25.625	21.635	44.941	1.00	61.71
ATOM	11329	CB	LYS	1580	-26.704	20.572	44.733	1.00	66.07
ATOM	11330	CG	LYS	1580	-28.121	21.097	44.889	1.00	74.21
ATOM	11331	CD	LYS	1580	-29.098	20.242	44.111	1.00	81.95
ATOM	11332	CE	LYS	1580	-28.664	20.102	42.642	1.00	87.59
ATOM	11333	NZ	LYS	1580	-28.469	21.400	41.926	1.00	84.33
ATOM	11334	C	LYS	1580	-25.617	22.602	43.755	1.00	65.39
ATOM	11335	O	LYS	1580	-26.363	23.585	43.729	1.00	65.40
ATOM	11336	N	CYS	1581	-24.793	22.269	42.759	1.00	53.07
ATOM	11337	CA	CYS	1581	-24.630	23.061	41.541	1.00	48.75
ATOM	11338	C	CYS	1581	-25.825	22.883	40.621	1.00	38.91

ATOM	11339	O	CYS	1581	-26.148	21.770	40.229	1.00	18.80
ATOM	11340	CB	CYS	1581	-23.361	22.632	40.809	1.00	35.79
ATOM	11341	SG	CYS	1581	-22.806	23.763	39.500	1.00	55.97
ATOM	11342	N	GLU	1582	-26.462	23.992	40.264	1.00	11.74
ATOM	11343	CA	GLU	1582	-27.636	23.987	39.400	1.00	17.17
ATOM	11344	CB	GLU	1582	-28.884	24.235	40.251	1.00	68.01
ATOM	11345	CG	GLU	1582	-30.200	23.848	39.600	1.00	84.54
ATOM	11346	CD	GLU	1582	-31.393	24.107	40.507	1.00	87.93
ATOM	11347	OE1	GLU	1582	-32.280	24.888	40.108	1.00	87.93
ATOM	11348	OE2	GLU	1582	-31.446	23.533	41.617	1.00	87.93
ATOM	11349	C	GLU	1582	-27.469	25.085	38.351	1.00	14.86
ATOM	11350	O	GLU	1582	-27.543	26.283	38.655	1.00	56.29
ATOM	11351	N	CYS	1583	-27.227	24.653	37.119	1.00	16.43
ATOM	11352	CA	CYS	1583	-27.008	25.544	35.988	1.00	16.42
ATOM	11353	C	CYS	1583	-25.887	26.519	36.306	1.00	12.38
ATOM	11354	O	CYS	1583	-26.106	27.737	36.399	1.00	41.82
ATOM	11355	CB	CYS	1583	-28.292	26.275	35.625	1.00	52.75
ATOM	11356	SG	CYS	1583	-29.644	25.097	35.374	1.00	67.75
ATOM	11357	N	GLY	1584	-24.695	25.951	36.508	1.00	38.53
ATOM	11358	CA	GLY	1584	-23.506	26.720	36.834	1.00	36.99
ATOM	11359	C	GLY	1584	-23.732	27.693	37.972	1.00	40.13
ATOM	11360	O	GLY	1584	-23.309	28.846	37.890	1.00	65.38
ATOM	11361	N	SER	1585	-24.431	27.251	39.016	1.00	20.87
ATOM	11362	CA	SER	1585	-24.716	28.123	40.152	1.00	23.41
ATOM	11363	CB	SER	1585	-25.616	29.292	39.722	1.00	59.95
ATOM	11364	OG	SER	1585	-25.536	30.366	40.646	1.00	69.40
ATOM	11365	C	SER	1585	-25.371	27.368	41.294	1.00	16.61
ATOM	11366	O	SER	1585	-26.495	26.889	41.164	1.00	40.52
ATOM	11367	N	CYS	1586	-24.668	27.326	42.423	1.00	16.49
ATOM	11368	CA	CYS	1586	-25.117	26.651	43.637	1.00	18.31
ATOM	11369	C	CYS	1586	-26.506	27.029	44.159	1.00	23.13
ATOM	11370	O	CYS	1586	-27.002	28.154	43.971	1.00	22.75
ATOM	11371	CB	CYS	1586	-24.136	26.898	44.782	1.00	26.82
ATOM	11372	SG	CYS	1586	-22.488	26.199	44.564	1.00	44.76
ATOM	11373	N	VAL	1587	-27.103	26.056	44.841	1.00	59.39
ATOM	11374	CA	VAL	1587	-28.403	26.179	45.482	1.00	64.83
ATOM	11375	CB	VAL	1587	-29.517	25.486	44.692	1.00	39.63
ATOM	11376	CG1	VAL	1587	-30.806	25.531	45.489	1.00	49.44
ATOM	11377	CG2	VAL	1587	-29.710	26.167	43.341	1.00	46.03
ATOM	11378	C	VAL	1587	-28.133	25.402	46.746	1.00	63.47
ATOM	11379	O	VAL	1587	-28.094	24.173	46.727	1.00	32.45
ATOM	11380	N	CYS	1588	-27.880	26.133	47.824	1.00	43.91
ATOM	11381	CA	CYS	1588	-27.538	25.543	49.109	1.00	45.42
ATOM	11382	C	CYS	1588	-28.610	24.733	49.797	1.00	49.51
ATOM	11383	O	CYS	1588	-29.761	25.161	49.880	1.00	72.16
ATOM	11384	CB	CYS	1588	-27.067	26.634	50.059	1.00	64.64
ATOM	11385	SG	CYS	1588	-26.049	27.885	49.227	1.00	71.35
ATOM	11386	N	ILE	1589	-28.214	23.549	50.272	1.00	99.10
ATOM	11387	CA	ILE	1589	-29.086	22.651	51.034	1.00	99.10
ATOM	11388	CB	ILE	1589	-28.604	21.180	50.954	1.00	73.60
ATOM	11389	CG2	ILE	1589	-29.635	20.261	51.592	1.00	79.34
ATOM	11390	CG1	ILE	1589	-28.393	20.765	49.490	1.00	71.25
ATOM	11391	CD1	ILE	1589	-27.609	19.451	49.308	1.00	66.83
ATOM	11392	C	ILE	1589	-28.862	23.228	52.436	1.00	99.10
ATOM	11393	O	ILE	1589	-28.229	22.633	53.309	1.00	75.90
ATOM	11394	N	GLN	1590	-29.335	24.464	52.548	1.00	100.00
ATOM	11395	CA	GLN	1590	-29.249	25.370	53.685	1.00	100.00

ATOM	11396	CB	GLN	1590	-30.255	26.519	53.462	1.00100.00
ATOM	11397	CG	GLN	1590	-30.042	27.772	54.314	1.00 92.79
ATOM	11398	CD	GLN	1590	-30.974	28.912	53.925	1.00 92.32
ATOM	11399	OE1	GLN	1590	-30.911	29.430	52.807	1.00 94.03
ATOM	11400	NE2	GLN	1590	-31.842	29.309	54.850	1.00 93.60
ATOM	11401	C	GLN	1590	-29.251	24.974	55.162	1.00100.00
ATOM	11402	O	GLN	1590	-30.306	24.886	55.797	1.00100.00
ATOM	11403	N	PRO	1591	-28.061	24.698	55.723	1.00 72.80
ATOM	11404	CD	PRO	1591	-26.787	24.352	55.071	1.00 61.60
ATOM	11405	CA	PRO	1591	-28.025	24.352	57.147	1.00 68.44
ATOM	11406	CB	PRO	1591	-26.706	23.571	57.282	1.00 64.91
ATOM	11407	CG	PRO	1591	-26.363	23.152	55.863	1.00 63.43
ATOM	11408	C	PRO	1591	-27.906	25.734	57.830	1.00 64.68
ATOM	11409	O	PRO	1591	-27.361	25.852	58.929	1.00 57.64
ATOM	11410	N	GLY	1592	-28.404	26.765	57.131	1.00 51.54
ATOM	11411	CA	GLY	1592	-28.340	28.157	57.571	1.00 48.35
ATOM	11412	C	GLY	1592	-27.204	28.889	56.845	1.00 48.01
ATOM	11413	O	GLY	1592	-26.702	29.916	57.311	1.00 60.54
ATOM	11414	N	SER	1593	-26.833	28.365	55.675	1.00 38.64
ATOM	11415	CA	SER	1593	-25.740	28.876	54.842	1.00 25.58
ATOM	11416	CB	SER	1593	-24.836	27.714	54.441	1.00 43.20
ATOM	11417	OG	SER	1593	-25.500	26.838	53.536	1.00 45.43
ATOM	11418	C	SER	1593	-26.162	29.580	53.556	1.00 19.53
ATOM	11419	O	SER	1593	-27.253	29.346	53.028	1.00 36.35
ATOM	11420	N	TYR	1594	-25.228	30.357	53.007	1.00 25.16
ATOM	11421	CA	TYR	1594	-25.420	31.123	51.767	1.00 22.66
ATOM	11422	CB	TYR	1594	-26.262	32.386	52.038	1.00 16.80
ATOM	11423	CG	TYR	1594	-25.763	33.234	53.200	1.00 2.01
ATOM	11424	CD1	TYR	1594	-24.835	34.248	52.993	1.00 6.53
ATOM	11425	CE1	TYR	1594	-24.323	34.998	54.055	1.00 7.83
ATOM	11426	CD2	TYR	1594	-26.170	32.981	54.511	1.00 2.00
ATOM	11427	CE2	TYR	1594	-25.665	33.723	55.578	1.00 6.28
ATOM	11428	CZ	TYR	1594	-24.735	34.730	55.341	1.00 14.96
ATOM	11429	OH	TYR	1594	-24.223	35.488	56.373	1.00 18.16
ATOM	11430	C	TYR	1594	-24.053	31.485	51.142	1.00 26.34
ATOM	11431	O	TYR	1594	-22.997	31.207	51.719	1.00 35.96
ATOM	11432	N	GLY	1595	-24.078	32.089	49.958	1.00 4.66
ATOM	11433	CA	GLY	1595	-22.845	32.454	49.282	1.00 7.15
ATOM	11434	C	GLY	1595	-22.768	31.799	47.912	1.00 14.27
ATOM	11435	O	GLY	1595	-23.398	30.762	47.694	1.00 25.35
ATOM	11436	N	ASP	1596	-21.981	32.383	47.003	1.00 31.44
ATOM	11437	CA	ASP	1596	-21.816	31.874	45.634	1.00 36.03
ATOM	11438	CB	ASP	1596	-20.606	32.525	44.955	1.00 48.46
ATOM	11439	CG	ASP	1596	-20.935	33.864	44.312	1.00 66.00
ATOM	11440	OD1	ASP	1596	-20.019	34.709	44.207	1.00 73.15
ATOM	11441	OD2	ASP	1596	-22.094	34.066	43.889	1.00 76.49
ATOM	11442	C	ASP	1596	-21.687	30.359	45.541	1.00 31.96
ATOM	11443	O	ASP	1596	-22.263	29.728	44.641	1.00 30.50
ATOM	11444	N	THR	1597	-20.899	29.800	46.460	1.00 30.32
ATOM	11445	CA	THR	1597	-20.663	28.368	46.543	1.00 31.77
ATOM	11446	CB	THR	1597	-19.167	28.010	46.304	1.00 27.25
ATOM	11447	OG1	THR	1597	-18.332	28.744	47.206	1.00 31.63
ATOM	11448	CG2	THR	1597	-18.763	28.325	44.873	1.00 31.27
ATOM	11449	C	THR	1597	-21.092	27.858	47.912	1.00 33.48
ATOM	11450	O	THR	1597	-20.642	26.806	48.347	1.00 32.79
ATOM	11451	N	CYS	1598	-21.945	28.624	48.590	1.00 2.00
ATOM	11452	CA	CYS	1598	-22.461	28.282	49.922	1.00 2.00

ATOM	11453	C	CYS	1598	-21.389	28.225	51.006	1.00	2.00
ATOM	11454	O	CYS	1598	-21.559	27.574	52.037	1.00	9.85
ATOM	11455	CB	CYS	1598	-23.228	26.961	49.887	1.00	2.00
ATOM	11456	SG	CYS	1598	-24.443	26.848	48.539	1.00	28.20
ATOM	11457	N	GLU	1599	-20.295	28.934	50.761	1.00	6.90
ATOM	11458	CA	GLU	1599	-19.151	29.008	51.663	1.00	18.87
ATOM	11459	CB	GLU	1599	-18.062	29.875	51.027	1.00	22.16
ATOM	11460	CG	GLU	1599	-18.511	31.296	50.637	1.00	20.65
ATOM	11461	CD	GLU	1599	-19.204	31.382	49.278	1.00	36.78
ATOM	11462	OE1	GLU	1599	-19.718	30.361	48.789	1.00	40.53
ATOM	11463	OE2	GLU	1599	-19.227	32.483	48.685	1.00	42.34
ATOM	11464	C	GLU	1599	-19.478	29.579	53.038	1.00	25.36
ATOM	11465	O	GLU	1599	-19.016	29.067	54.060	1.00	37.62
ATOM	11466	N	LYS	1600	-20.250	30.664	53.037	1.00	44.08
ATOM	11467	CA	LYS	1600	-20.645	31.380	54.246	1.00	34.25
ATOM	11468	CB	LYS	1600	-21.156	32.781	53.881	1.00	55.00
ATOM	11469	CG	LYS	1600	-20.187	33.657	53.096	1.00	65.78
ATOM	11470	CD	LYS	1600	-20.801	35.030	52.800	1.00	71.22
ATOM	11471	CE	LYS	1600	-19.845	35.946	52.037	1.00	79.51
ATOM	11472	NZ	LYS	1600	-20.466	37.269	51.724	1.00	77.28
ATOM	11473	C	LYS	1600	-21.727	30.696	55.067	1.00	21.05
ATOM	11474	O	LYS	1600	-22.756	30.281	54.527	1.00	23.80
ATOM	11475	N	CYS	1601	-21.491	30.581	56.372	1.00	2.15
ATOM	11476	CA	CYS	1601	-22.486	30.017	57.276	1.00	12.21
ATOM	11477	C	CYS	1601	-22.118	30.389	58.696	1.00	11.87
ATOM	11478	O	CYS	1601	-21.457	29.628	59.401	1.00	15.24
ATOM	11479	CB	CYS	1601	-22.652	28.498	57.138	1.00	18.17
ATOM	11480	SG	CYS	1601	-24.247	27.935	57.834	1.00	54.04
ATOM	11481	N	PRO	1602	-22.542	31.584	59.130	1.00	2.00
ATOM	11482	CD	PRO	1602	-23.286	32.549	58.311	1.00	31.05
ATOM	11483	CA	PRO	1602	-22.295	32.137	60.460	1.00	2.00
ATOM	11484	CB	PRO	1602	-22.925	33.523	60.365	1.00	38.41
ATOM	11485	CG	PRO	1602	-22.835	33.837	58.904	1.00	29.45
ATOM	11486	C	PRO	1602	-22.964	31.318	61.550	1.00	4.20
ATOM	11487	O	PRO	1602	-22.340	30.960	62.545	1.00	44.83
ATOM	11488	N	THR	1603	-24.235	31.004	61.343	1.00	23.06
ATOM	11489	CA	THR	1603	-24.988	30.240	62.326	1.00	33.31
ATOM	11490	CB	THR	1603	-26.487	30.604	62.259	1.00	30.55
ATOM	11491	OG1	THR	1603	-26.932	30.618	60.894	1.00	42.41
ATOM	11492	CG2	THR	1603	-26.694	31.980	62.857	1.00	41.51
ATOM	11493	C	THR	1603	-24.767	28.722	62.315	1.00	36.69
ATOM	11494	O	THR	1603	-25.440	27.986	63.039	1.00	24.92
ATOM	11495	N	CYS	1604	-23.801	28.268	61.515	1.00	45.87
ATOM	11496	CA	CYS	1604	-23.459	26.846	61.420	1.00	45.48
ATOM	11497	C	CYS	1604	-22.578	26.407	62.603	1.00	50.03
ATOM	11498	O	CYS	1604	-21.674	27.140	63.021	1.00	36.29
ATOM	11499	CB	CYS	1604	-22.758	26.554	60.094	1.00	34.11
ATOM	11500	SG	CYS	1604	-23.866	26.146	58.710	1.00	45.34
ATOM	11501	N	PRO	1605	-22.767	25.161	63.088	1.00	55.11
ATOM	11502	CD	PRO	1605	-23.551	24.129	62.390	1.00	32.89
ATOM	11503	CA	PRO	1605	-22.039	24.562	64.219	1.00	51.32
ATOM	11504	CB	PRO	1605	-22.490	23.100	64.185	1.00	28.89
ATOM	11505	CG	PRO	1605	-23.803	23.153	63.494	1.00	33.31
ATOM	11506	C	PRO	1605	-20.523	24.657	64.125	1.00	49.51
ATOM	11507	O	PRO	1605	-19.957	24.544	63.034	1.00	27.45
ATOM	11508	N	ASP	1606	-19.873	24.817	65.278	1.00	33.86
ATOM	11509	CA	ASP	1606	-18.415	24.925	65.329	1.00	33.14

ATOM	11510	CB	ASP	1606	-17.941	25.341	66.738	1.00	52.39
ATOM	11511	CG	ASP	1606	-18.305	24.330	67.826	1.00	54.22
ATOM	11512	OD1	ASP	1606	-17.593	24.297	68.854	1.00	47.97
ATOM	11513	OD2	ASP	1606	-19.301	23.588	67.678	1.00	55.17
ATOM	11514	C	ASP	1606	-17.693	23.658	64.841	1.00	37.15
ATOM	11515	O	ASP	1606	-18.293	22.583	64.762	1.00	60.80
ATOM	11516	N	ALA	1607	-16.421	23.804	64.467	1.00	61.21
ATOM	11517	CA	ALA	1607	-15.617	22.679	63.986	1.00	67.06
ATOM	11518	CB	ALA	1607	-14.186	23.126	63.717	1.00	40.32
ATOM	11519	C	ALA	1607	-15.619	21.537	64.994	1.00	69.18
ATOM	11520	O	ALA	1607	-15.649	20.363	64.617	1.00	41.79
ATOM	11521	N	CYS	1608	-15.623	21.892	66.278	1.00	25.01
ATOM	11522	CA	CYS	1608	-15.628	20.910	67.350	1.00	21.92
ATOM	11523	C	CYS	1608	-16.716	19.888	67.138	1.00	14.25
ATOM	11524	O	CYS	1608	-16.676	18.803	67.713	1.00	81.57
ATOM	11525	CB	CYS	1608	-15.837	21.577	68.706	1.00	100.00
ATOM	11526	SG	CYS	1608	-14.339	22.359	69.369	1.00	100.00
ATOM	11527	N	THR	1609	-17.684	20.241	66.306	1.00	31.38
ATOM	11528	CA	THR	1609	-18.803	19.361	66.020	1.00	38.74
ATOM	11529	CB	THR	1609	-20.127	20.169	66.027	1.00	14.64
ATOM	11530	OG1	THR	1609	-20.257	20.866	67.284	1.00	20.84
ATOM	11531	CG2	THR	1609	-21.316	19.234	65.841	1.00	16.50
ATOM	11532	C	THR	1609	-18.597	18.592	64.704	1.00	38.42
ATOM	11533	O	THR	1609	-18.957	17.415	64.590	1.00	7.29
ATOM	11534	N	PHE	1610	-17.975	19.257	63.736	1.00	64.61
ATOM	11535	CA	PHE	1610	-17.687	18.660	62.437	1.00	69.87
ATOM	11536	CB	PHE	1610	-17.180	19.735	61.459	1.00	87.51
ATOM	11537	CG	PHE	1610	-18.265	20.397	60.635	1.00	100.00
ATOM	11538	CD1	PHE	1610	-18.222	20.341	59.239	1.00	100.00
ATOM	11539	CD2	PHE	1610	-19.303	21.099	61.243	1.00	100.00
ATOM	11540	CE1	PHE	1610	-19.194	20.974	58.461	1.00	100.00
ATOM	11541	CE2	PHE	1610	-20.282	21.737	60.474	1.00	100.00
ATOM	11542	CZ	PHE	1610	-20.225	21.674	59.081	1.00	100.00
ATOM	11543	C	PHE	1610	-16.620	17.572	62.580	1.00	65.15
ATOM	11544	O	PHE	1610	-16.789	16.452	62.100	1.00	67.14
ATOM	11545	N	LYS	1611	-15.533	17.913	63.265	1.00	49.37
ATOM	11546	CA	LYS	1611	-14.408	17.001	63.467	1.00	45.45
ATOM	11547	CB	LYS	1611	-13.171	17.787	63.924	1.00	27.29
ATOM	11548	CG	LYS	1611	-12.694	18.842	62.903	1.00	30.33
ATOM	11549	CD	LYS	1611	-12.078	18.186	61.653	1.00	38.99
ATOM	11550	CE	LYS	1611	-11.764	19.178	60.531	1.00	43.50
ATOM	11551	NZ	LYS	1611	-12.979	19.608	59.778	1.00	48.07
ATOM	11552	C	LYS	1611	-14.679	15.813	64.389	1.00	45.72
ATOM	11553	O	LYS	1611	-14.080	14.762	64.218	1.00	36.20
ATOM	11554	N	LYS	1612	-15.574	15.986	65.361	1.00	11.28
ATOM	11555	CA	LYS	1612	-15.952	14.922	66.296	1.00	8.32
ATOM	11556	CB	LYS	1612	-17.138	15.385	67.153	1.00	62.67
ATOM	11557	CG	LYS	1612	-17.953	14.271	67.803	1.00	69.72
ATOM	11558	CD	LYS	1612	-19.238	14.830	68.411	1.00	77.09
ATOM	11559	CE	LYS	1612	-20.319	13.755	68.613	1.00	81.34
ATOM	11560	NZ	LYS	1612	-20.032	12.744	69.679	1.00	73.91
ATOM	11561	C	LYS	1612	-16.343	13.680	65.506	1.00	5.41
ATOM	11562	O	LYS	1612	-16.022	12.555	65.880	1.00	46.13
ATOM	11563	N	GLU	1613	-17.021	13.916	64.393	1.00	20.00
ATOM	11564	CA	GLU	1613	-17.476	12.865	63.496	1.00	27.25
ATOM	11565	CB	GLU	1613	-18.155	13.508	62.288	1.00	54.73
ATOM	11566	CG	GLU	1613	-19.395	14.340	62.602	1.00	66.61

ATOM	11567	CD	GLU	1613	-20.575	13.498	63.053	1.00	77.20
ATOM	11568	OE1	GLU	1613	-20.804	13.395	64.277	1.00	77.20
ATOM	11569	OE2	GLU	1613	-21.280	12.948	62.183	1.00	77.20
ATOM	11570	C	GLU	1613	-16.296	12.013	63.034	1.00	26.31
ATOM	11571	O	GLU	1613	-16.410	10.794	62.858	1.00	56.04
ATOM	11572	N	CYS	1614	-15.161	12.677	62.850	1.00	42.92
ATOM	11573	CA	CYS	1614	-13.927	12.031	62.429	1.00	36.41
ATOM	11574	C	CYS	1614	-13.264	11.187	63.524	1.00	26.48
ATOM	11575	O	CYS	1614	-13.048	9.989	63.350	1.00	22.49
ATOM	11576	CB	CYS	1614	-12.957	13.093	61.908	1.00	36.51
ATOM	11577	SG	CYS	1614	-13.295	13.520	60.178	1.00	46.36
ATOM	11578	N	VAL	1615	-12.980	11.813	64.662	1.00	7.29
ATOM	11579	CA	VAL	1615	-12.342	11.130	65.775	1.00	9.49
ATOM	11580	CB	VAL	1615	-12.026	12.099	66.965	1.00	2.00
ATOM	11581	CG1	VAL	1615	-11.474	13.405	66.457	1.00	2.00
ATOM	11582	CG2	VAL	1615	-13.235	12.318	67.828	1.00	2.00
ATOM	11583	C	VAL	1615	-13.187	9.955	66.257	1.00	21.19
ATOM	11584	O	VAL	1615	-12.660	8.882	66.574	1.00	13.62
ATOM	11585	N	GLU	1616	-14.502	10.162	66.274	1.00	21.96
ATOM	11586	CA	GLU	1616	-15.446	9.138	66.698	1.00	29.76
ATOM	11587	CB	GLU	1616	-16.808	9.760	66.968	1.00	49.30
ATOM	11588	CG	GLU	1616	-17.102	10.003	68.423	1.00	56.58
ATOM	11589	CD	GLU	1616	-17.183	8.724	69.231	1.00	62.52
ATOM	11590	OE1	GLU	1616	-16.378	8.557	70.173	1.00	52.58
ATOM	11591	OE2	GLU	1616	-18.065	7.892	68.932	1.00	64.35
ATOM	11592	C	GLU	1616	-15.587	8.072	65.629	1.00	28.39
ATOM	11593	O	GLU	1616	-16.690	7.735	65.218	1.00	56.54
ATOM	11594	N	CYS	1617	-14.461	7.547	65.179	1.00	34.96
ATOM	11595	CA	CYS	1617	-14.458	6.530	64.154	1.00	37.68
ATOM	11596	C	CYS	1617	-13.019	6.181	63.823	1.00	35.10
ATOM	11597	O	CYS	1617	-12.571	5.060	64.050	1.00	59.02
ATOM	11598	CB	CYS	1617	-15.161	7.036	62.901	1.00	60.09
ATOM	11599	SG	CYS	1617	-14.451	6.263	61.432	1.00	80.77
ATOM	11600	N	LYS	1618	-12.291	7.159	63.298	1.00	22.71
ATOM	11601	CA	LYS	1618	-10.894	6.982	62.936	1.00	18.16
ATOM	11602	CB	LYS	1618	-10.345	8.295	62.367	1.00	23.27
ATOM	11603	CG	LYS	1618	-10.939	8.700	61.028	1.00	31.64
ATOM	11604	CD	LYS	1618	-10.360	7.869	59.889	1.00	50.48
ATOM	11605	CE	LYS	1618	-8.960	8.339	59.492	1.00	60.79
ATOM	11606	NZ	LYS	1618	-8.967	9.693	58.853	1.00	69.91
ATOM	11607	C	LYS	1618	-10.093	6.578	64.174	1.00	17.84
ATOM	11608	O	LYS	1618	-8.912	6.239	64.094	1.00	35.56
ATOM	11609	N	LYS	1619	-10.751	6.628	65.322	1.00	2.40
ATOM	11610	CA	LYS	1619	-10.126	6.272	66.579	1.00	2.00
ATOM	11611	CB	LYS	1619	-9.656	7.534	67.309	1.00	8.95
ATOM	11612	CG	LYS	1619	-8.295	8.028	66.890	1.00	12.23
ATOM	11613	CD	LYS	1619	-7.189	7.268	67.599	1.00	14.08
ATOM	11614	CE	LYS	1619	-5.804	7.689	67.144	1.00	25.67
ATOM	11615	NZ	LYS	1619	-5.692	7.516	65.665	1.00	19.98
ATOM	11616	C	LYS	1619	-11.125	5.542	67.450	1.00	2.00
ATOM	11617	O	LYS	1619	-10.817	5.185	68.586	1.00	20.15
ATOM	11618	N	PHE	1620	-12.338	5.352	66.948	1.00	24.19
ATOM	11619	CA	PHE	1620	-13.349	4.682	67.743	1.00	27.08
ATOM	11620	CB	PHE	1620	-14.225	5.690	68.451	1.00	22.73
ATOM	11621	CG	PHE	1620	-13.621	6.213	69.701	1.00	14.91
ATOM	11622	CD1	PHE	1620	-12.720	7.257	69.663	1.00	16.39
ATOM	11623	CD2	PHE	1620	-13.956	5.664	70.921	1.00	18.29

ATOM	11624	CE1	PHE	1620	-12.162	7.745	70.833	1.00	19.83
ATOM	11625	CE2	PHE	1620	-13.403	6.146	72.097	1.00	11.36
ATOM	11626	CZ	PHE	1620	-12.509	7.184	72.058	1.00	7.30
ATOM	11627	C	PHE	1620	-14.201	3.691	67.020	1.00	32.94
ATOM	11628	O	PHE	1620	-15.042	3.049	67.632	1.00	42.51
ATOM	11629	N	ASP	1621	-14.033	3.611	65.708	1.00	25.55
ATOM	11630	CA	ASP	1621	-14.762	2.647	64.897	1.00	33.51
ATOM	11631	CB	ASP	1621	-14.360	1.235	65.335	1.00	51.50
ATOM	11632	CG	ASP	1621	-14.684	0.187	64.307	1.00	52.61
ATOM	11633	OD1	ASP	1621	-15.128	-0.906	64.703	1.00	48.80
ATOM	11634	OD2	ASP	1621	-14.476	0.443	63.106	1.00	53.78
ATOM	11635	C	ASP	1621	-16.285	2.777	64.907	1.00	36.70
ATOM	11636	O	ASP	1621	-16.966	2.000	64.238	1.00	59.03
ATOM	11637	N	ARG	1622	-16.829	3.733	65.659	1.00	23.42
ATOM	11638	CA	ARG	1622	-18.282	3.894	65.695	1.00	23.19
ATOM	11639	CB	ARG	1622	-18.809	3.834	67.124	1.00	43.44
ATOM	11640	CG	ARG	1622	-18.154	4.766	68.097	1.00	53.66
ATOM	11641	CD	ARG	1622	-18.952	4.749	69.384	1.00	56.63
ATOM	11642	NE	ARG	1622	-18.228	5.312	70.519	1.00	61.76
ATOM	11643	CZ	ARG	1622	-17.812	4.602	71.562	1.00	56.86
ATOM	11644	NH1	ARG	1622	-18.039	3.294	71.620	1.00	58.38
ATOM	11645	NH2	ARG	1622	-17.192	5.210	72.562	1.00	57.35
ATOM	11646	C	ARG	1622	-18.847	5.110	64.958	1.00	27.06
ATOM	11647	O	ARG	1622	-18.188	5.672	64.076	1.00	47.58
ATOM	11648	N	GLU	1623	-20.098	5.456	65.275	1.00	99.88
ATOM	11649	CA	GLU	1623	-20.796	6.591	64.661	1.00	100.00
ATOM	11650	CB	GLU	1623	-19.999	7.881	64.894	1.00	85.47
ATOM	11651	CG	GLU	1623	-20.595	8.818	65.942	1.00	99.84
ATOM	11652	CD	GLU	1623	-20.015	10.232	65.881	1.00	99.84
ATOM	11653	OE1	GLU	1623	-20.330	11.042	66.783	1.00	99.84
ATOM	11654	OE2	GLU	1623	-19.250	10.538	64.936	1.00	99.84
ATOM	11655	C	GLU	1623	-21.019	6.381	63.159	1.00	100.00
ATOM	11656	O	GLU	1623	-20.753	5.298	62.634	1.00	79.60
ATOM	11657	N	PRO	1624	-21.598	7.382	62.464	1.00	46.47
ATOM	11658	CD	PRO	1624	-22.279	8.594	62.954	1.00	84.18
ATOM	11659	CA	PRO	1624	-21.817	7.229	61.021	1.00	50.66
ATOM	11660	CB	PRO	1624	-22.633	8.473	60.664	1.00	89.79
ATOM	11661	CG	PRO	1624	-22.268	9.457	61.737	1.00	91.90
ATOM	11662	C	PRO	1624	-20.469	7.191	60.297	1.00	52.10
ATOM	11663	O	PRO	1624	-19.427	7.118	60.955	1.00	92.55
ATOM	11664	N	TYR	1625	-20.481	7.284	58.963	1.00	93.47
ATOM	11665	CA	TYR	1625	-19.262	7.218	58.130	1.00	99.56
ATOM	11666	CB	TYR	1625	-18.145	8.123	58.650	1.00	99.00
ATOM	11667	CG	TYR	1625	-18.527	9.564	58.806	1.00	99.00
ATOM	11668	CD1	TYR	1625	-18.660	10.396	57.695	1.00	99.00
ATOM	11669	CE1	TYR	1625	-19.036	11.724	57.840	1.00	99.00
ATOM	11670	CD2	TYR	1625	-18.773	10.093	60.067	1.00	97.01
ATOM	11671	CE2	TYR	1625	-19.151	11.406	60.226	1.00	99.00
ATOM	11672	CZ	TYR	1625	-19.282	12.228	59.116	1.00	99.00
ATOM	11673	OH	TYR	1625	-19.673	13.545	59.293	1.00	99.00
ATOM	11674	C	TYR	1625	-18.801	5.779	58.206	1.00	97.94
ATOM	11675	O	TYR	1625	-18.433	5.172	57.207	1.00	89.47
ATOM	11676	N	MET	1626	-18.742	5.289	59.439	1.00	100.00
ATOM	11677	CA	MET	1626	-18.411	3.917	59.763	1.00	100.00
ATOM	11678	CB	MET	1626	-18.417	3.762	61.288	1.00	68.86
ATOM	11679	CG	MET	1626	-18.691	2.363	61.816	1.00	68.00
ATOM	11680	SD	MET	1626	-17.332	1.242	61.528	1.00	68.34

ATOM	11681	CE	MET	1626	-15.917	2.412	61.345	1.00	75.28
ATOM	11682	C	MET	1626	-19.598	3.179	59.174	1.00	100.00
ATOM	11683	O	MET	1626	-19.466	2.078	58.637	1.00	57.60
ATOM	11684	N	THR	1627	-20.745	3.857	59.237	1.00	79.79
ATOM	11685	CA	THR	1627	-22.010	3.351	58.740	1.00	75.47
ATOM	11686	CB	THR	1627	-23.188	4.008	59.483	1.00	54.58
ATOM	11687	OG1	THR	1627	-22.973	3.906	60.899	1.00	49.93
ATOM	11688	CG2	THR	1627	-24.493	3.311	59.137	1.00	59.16
ATOM	11689	C	THR	1627	-22.157	3.511	57.225	1.00	70.39
ATOM	11690	O	THR	1627	-22.740	2.643	56.578	1.00	41.69
ATOM	11691	N	GLU	1628	-21.645	4.600	56.650	1.00	27.20
ATOM	11692	CA	GLU	1628	-21.741	4.761	55.192	1.00	27.32
ATOM	11693	CB	GLU	1628	-22.177	6.170	54.778	1.00	57.98
ATOM	11694	CG	GLU	1628	-23.378	6.713	55.501	1.00	73.47
ATOM	11695	CD	GLU	1628	-22.982	7.462	56.750	1.00	81.69
ATOM	11696	OE1	GLU	1628	-23.033	6.853	57.838	1.00	83.75
ATOM	11697	OE2	GLU	1628	-22.601	8.653	56.636	1.00	83.75
ATOM	11698	C	GLU	1628	-20.427	4.427	54.487	1.00	25.16
ATOM	11699	O	GLU	1628	-20.302	4.641	53.279	1.00	53.20
ATOM	11700	N	ASN	1629	-19.469	3.894	55.249	1.00	40.77
ATOM	11701	CA	ASN	1629	-18.135	3.510	54.760	1.00	43.25
ATOM	11702	CB	ASN	1629	-18.229	2.373	53.725	1.00	63.37
ATOM	11703	CG	ASN	1629	-18.880	1.102	54.281	1.00	68.69
ATOM	11704	OD1	ASN	1629	-19.138	0.157	53.532	1.00	73.46
ATOM	11705	ND2	ASN	1629	-19.145	1.075	55.588	1.00	64.64
ATOM	11706	C	ASN	1629	-17.365	4.697	54.171	1.00	42.74
ATOM	11707	O	ASN	1629	-16.552	4.532	53.256	1.00	60.90
ATOM	11708	N	THR	1630	-17.609	5.888	54.717	1.00	55.82
ATOM	11709	CA	THR	1630	-16.966	7.108	54.231	1.00	55.97
ATOM	11710	CB	THR	1630	-18.009	8.112	53.668	1.00	39.44
ATOM	11711	OG1	THR	1630	-18.880	8.557	54.718	1.00	33.39
ATOM	11712	CG2	THR	1630	-18.838	7.469	52.561	1.00	39.61
ATOM	11713	C	THR	1630	-16.104	7.829	55.269	1.00	54.67
ATOM	11714	O	THR	1630	-15.849	9.024	55.152	1.00	41.76
ATOM	11715	N	CYS	1631	-15.643	7.108	56.281	1.00	50.37
ATOM	11716	CA	CYS	1631	-14.808	7.726	57.303	1.00	49.93
ATOM	11717	C	CYS	1631	-13.364	7.588	56.864	1.00	51.41
ATOM	11718	O	CYS	1631	-12.542	7.005	57.570	1.00	40.90
ATOM	11719	CB	CYS	1631	-15.035	7.025	58.638	1.00	41.57
ATOM	11720	SG	CYS	1631	-14.275	7.781	60.105	1.00	47.16
ATOM	11721	N	ASN	1632	-13.073	8.086	55.665	1.00	51.61
ATOM	11722	CA	ASN	1632	-11.730	8.017	55.094	1.00	61.97
ATOM	11723	CB	ASN	1632	-11.445	6.611	54.551	1.00	96.45
ATOM	11724	CG	ASN	1632	-12.705	5.897	54.086	1.00	100.00
ATOM	11725	OD1	ASN	1632	-13.387	5.241	54.878	1.00	100.00
ATOM	11726	ND2	ASN	1632	-13.028	6.034	52.806	1.00	100.00
ATOM	11727	C	ASN	1632	-11.549	9.064	54.004	1.00	68.62
ATOM	11728	O	ASN	1632	-11.005	10.138	54.261	1.00	100.00
ATOM	11729	N	ARG	1633	-12.026	8.764	52.798	1.00	99.63
ATOM	11730	CA	ARG	1633	-11.920	9.689	51.671	1.00	97.55
ATOM	11731	CB	ARG	1633	-12.487	9.045	50.404	1.00	60.50
ATOM	11732	CG	ARG	1633	-12.419	9.914	49.163	1.00	53.21
ATOM	11733	CD	ARG	1633	-12.879	9.155	47.935	1.00	50.40
ATOM	11734	NE	ARG	1633	-12.035	7.991	47.676	1.00	50.21
ATOM	11735	CZ	ARG	1633	-12.416	6.917	46.985	1.00	54.03
ATOM	11736	NH1	ARG	1633	-13.642	6.838	46.473	1.00	52.41
ATOM	11737	NH2	ARG	1633	-11.554	5.926	46.783	1.00	51.35

ATOM	11738	C	ARG	1633	-12.679	10.971	51.984	1.00	97.48
ATOM	11739	O	ARG	1633	-12.254	12.064	51.609	1.00	74.08
ATOM	11740	N	TYR	1634	-13.785	10.814	52.707	1.00	83.06
ATOM	11741	CA	TYR	1634	-14.659	11.916	53.111	1.00	76.91
ATOM	11742	CB	TYR	1634	-16.014	11.334	53.503	1.00	86.27
ATOM	11743	CG	TYR	1634	-17.220	12.169	53.173	1.00	87.14
ATOM	11744	CD1	TYR	1634	-17.794	12.116	51.904	1.00	84.45
ATOM	11745	CE1	TYR	1634	-18.963	12.805	51.612	1.00	93.10
ATOM	11746	CD2	TYR	1634	-17.843	12.945	54.150	1.00	91.44
ATOM	11747	CE2	TYR	1634	-19.015	13.641	53.874	1.00	97.24
ATOM	11748	CZ	TYR	1634	-19.572	13.566	52.600	1.00	99.22
ATOM	11749	OH	TYR	1634	-20.742	14.239	52.313	1.00	99.22
ATOM	11750	C	TYR	1634	-14.072	12.647	54.316	1.00	66.87
ATOM	11751	O	TYR	1634	-13.793	13.846	54.279	1.00	73.49
ATOM	11752	N	CYS	1635	-13.900	11.899	55.392	1.00	67.38
ATOM	11753	CA	CYS	1635	-13.365	12.435	56.624	1.00	59.62
ATOM	11754	C	CYS	1635	-11.872	12.094	56.740	1.00	55.73
ATOM	11755	O	CYS	1635	-11.467	11.192	57.481	1.00	23.15
ATOM	11756	CB	CYS	1635	-14.200	11.888	57.784	1.00	48.09
ATOM	11757	SG	CYS	1635	-13.315	11.676	59.339	1.00	72.46
ATOM	11758	N	ARG	1636	-11.063	12.833	55.982	1.00	78.43
ATOM	11759	CA	ARG	1636	-9.611	12.651	55.939	1.00	84.76
ATOM	11760	CB	ARG	1636	-9.066	13.243	54.644	1.00	62.06
ATOM	11761	CG	ARG	1636	-9.553	14.657	54.376	1.00	71.92
ATOM	11762	CD	ARG	1636	-10.025	14.801	52.941	1.00	82.00
ATOM	11763	NE	ARG	1636	-8.976	14.456	51.986	1.00	87.71
ATOM	11764	CZ	ARG	1636	-9.158	14.369	50.674	1.00	87.71
ATOM	11765	NH1	ARG	1636	-10.356	14.597	50.151	1.00	87.71
ATOM	11766	NH2	ARG	1636	-8.134	14.072	49.886	1.00	85.36
ATOM	11767	C	ARG	1636	-8.843	13.220	57.131	1.00	82.64
ATOM	11768	O	ARG	1636	-8.949	12.698	58.248	1.00	46.39
ATOM	11769	N	ASP	1637	-8.062	14.275	56.872	1.00	70.89
ATOM	11770	CA	ASP	1637	-7.233	14.960	57.877	1.00	78.47
ATOM	11771	CB	ASP	1637	-8.093	15.482	59.046	1.00	100.00
ATOM	11772	CG	ASP	1637	-9.106	16.534	58.619	1.00	100.00
ATOM	11773	OD1	ASP	1637	-8.684	17.611	58.142	1.00	100.00
ATOM	11774	OD2	ASP	1637	-10.322	16.285	58.782	1.00	100.00
ATOM	11775	C	ASP	1637	-6.162	14.006	58.408	1.00	76.31
ATOM	11776	O	ASP	1637	-5.690	13.133	57.680	1.00	100.00
ATOM	11777	N	GLU	1638	-5.741	14.210	59.654	1.00	34.83
ATOM	11778	CA	GLU	1638	-4.770	13.330	60.282	1.00	31.42
ATOM	11779	CB	GLU	1638	-3.360	13.546	59.741	1.00	77.29
ATOM	11780	CG	GLU	1638	-2.711	14.838	60.118	1.00	91.59
ATOM	11781	CD	GLU	1638	-1.212	14.699	60.115	1.00	98.88
ATOM	11782	OE1	GLU	1638	-0.688	13.972	60.994	1.00	98.53
ATOM	11783	OE2	GLU	1638	-0.565	15.291	59.224	1.00	98.88
ATOM	11784	C	GLU	1638	-4.812	13.369	61.813	1.00	24.56
ATOM	11785	O	GLU	1638	-4.405	14.342	62.459	1.00	53.30
ATOM	11786	N	ILE	1639	-5.335	12.277	62.366	1.00	75.57
ATOM	11787	CA	ILE	1639	-5.507	12.087	63.802	1.00	67.53
ATOM	11788	CB	ILE	1639	-6.648	11.069	64.117	1.00	20.49
ATOM	11789	CG2	ILE	1639	-7.038	11.144	65.573	1.00	14.58
ATOM	11790	CG1	ILE	1639	-7.899	11.366	63.289	1.00	20.87
ATOM	11791	CD1	ILE	1639	-7.771	11.001	61.813	1.00	24.88
ATOM	11792	C	ILE	1639	-4.231	11.572	64.441	1.00	67.40
ATOM	11793	O	ILE	1639	-3.361	11.000	63.775	1.00	37.87
ATOM	11794	N	GLU	1640	-4.157	11.737	65.754	1.00	19.66

ATOM	11795	CA	GLU	1640	-3.005	11.307	66.516	1.00	27.45
ATOM	11796	CB	GLU	1640	-1.858	12.307	66.310	1.00	85.81
ATOM	11797	CG	GLU	1640	-0.457	11.763	66.558	1.00	100.00
ATOM	11798	CD	GLU	1640	-0.181	11.453	68.021	1.00	100.00
ATOM	11799	OE1	GLU	1640	-0.053	12.404	68.824	1.00	100.00
ATOM	11800	OE2	GLU	1640	-0.090	10.255	68.370	1.00	100.00
ATOM	11801	C	GLU	1640	-3.433	11.271	67.975	1.00	29.77
ATOM	11802	O	GLU	1640	-4.129	12.168	68.443	1.00	83.58
ATOM	11803	N	SER	1641	-3.053	10.207	68.674	1.00	45.91
ATOM	11804	CA	SER	1641	-3.370	10.051	70.093	1.00	43.25
ATOM	11805	CB	SER	1641	-3.467	8.567	70.449	1.00	66.96
ATOM	11806	OG	SER	1641	-2.394	7.826	69.890	1.00	84.61
ATOM	11807	C	SER	1641	-2.319	10.751	70.959	1.00	39.85
ATOM	11808	O	SER	1641	-1.368	10.131	71.435	1.00	66.39
ATOM	11809	N	VAL	1642	-2.509	12.051	71.159	1.00	67.80
ATOM	11810	CA	VAL	1642	-1.582	12.856	71.938	1.00	77.70
ATOM	11811	CB	VAL	1642	-1.972	14.358	71.912	1.00	30.61
ATOM	11812	CG1	VAL	1642	-3.287	14.593	72.605	1.00	38.47
ATOM	11813	CG2	VAL	1642	-0.883	15.194	72.551	1.00	37.59
ATOM	11814	C	VAL	1642	-1.373	12.367	73.371	1.00	80.68
ATOM	11815	O	VAL	1642	-2.321	12.186	74.142	1.00	23.45
ATOM	11816	N	LYS	1643	-0.106	12.123	73.692	1.00	100.00
ATOM	11817	CA	LYS	1643	0.311	11.650	75.009	1.00	100.00
ATOM	11818	CB	LYS	1643	1.844	11.618	75.105	1.00	100.00
ATOM	11819	CG	LYS	1643	2.539	10.718	74.090	1.00	100.00
ATOM	11820	CD	LYS	1643	3.956	11.210	73.789	1.00	100.00
ATOM	11821	CE	LYS	1643	3.941	12.518	72.991	1.00	100.00
ATOM	11822	NZ	LYS	1643	5.307	12.989	72.610	1.00	100.00
ATOM	11823	C	LYS	1643	-0.227	12.572	76.089	1.00	100.00
ATOM	11824	O	LYS	1643	-0.002	13.783	76.047	1.00	100.00
ATOM	11825	N	GLU	1644	-0.961	11.990	77.033	1.00	100.00
ATOM	11826	CA	GLU	1644	-1.535	12.731	78.153	1.00	100.00
ATOM	11827	CB	GLU	1644	-0.447	12.984	79.219	1.00	100.00
ATOM	11828	CG	GLU	1644	0.398	11.735	79.621	1.00	100.00
ATOM	11829	CD	GLU	1644	-0.279	10.798	80.639	1.00	100.00
ATOM	11830	OE1	GLU	1644	0.073	10.866	81.840	1.00	100.00
ATOM	11831	OE2	GLU	1644	-1.132	9.971	80.242	1.00	100.00
ATOM	11832	C	GLU	1644	-2.190	14.041	77.666	1.00	100.00
ATOM	11833	O	GLU	1644	-3.072	14.002	76.803	1.00	97.79
ATOM	11834	N	LEU	1645	-1.731	15.189	78.174	1.00	88.81
ATOM	11835	CA	LEU	1645	-2.279	16.492	77.780	1.00	90.93
ATOM	11836	CB	LEU	1645	-1.742	17.622	78.677	1.00	34.63
ATOM	11837	CG	LEU	1645	-0.336	17.627	79.312	1.00	42.18
ATOM	11838	CD1	LEU	1645	0.804	17.531	78.286	1.00	42.18
ATOM	11839	CD2	LEU	1645	-0.196	18.894	80.162	1.00	42.18
ATOM	11840	C	LEU	1645	-2.058	16.832	76.308	1.00	87.63
ATOM	11841	O	LEU	1645	-1.334	16.135	75.603	1.00	18.67
ATOM	11842	N	LYS	1646	-2.686	17.908	75.848	1.00	77.83
ATOM	11843	CA	LYS	1646	-2.554	18.308	74.453	1.00	81.99
ATOM	11844	CB	LYS	1646	-3.917	18.667	73.863	1.00	92.86
ATOM	11845	CG	LYS	1646	-4.834	19.435	74.785	1.00	84.37
ATOM	11846	CD	LYS	1646	-6.124	19.830	74.069	1.00	80.25
ATOM	11847	CE	LYS	1646	-6.863	18.634	73.463	1.00	79.23
ATOM	11848	NZ	LYS	1646	-6.244	18.109	72.206	1.00	81.61
ATOM	11849	C	LYS	1646	-1.521	19.379	74.108	1.00	87.16
ATOM	11850	O	LYS	1646	-0.623	19.679	74.893	1.00	98.27
ATOM	11851	N	ASP	1647	-1.666	19.941	72.910	1.00	99.72

ATOM	11852	CA	ASP	1647	-0.758	20.950	72.371	1.00	99.72
ATOM	11853	CB	ASP	1647	-0.979	21.101	70.858	1.00	99.25
ATOM	11854	CG	ASP	1647	-0.727	19.807	70.089	1.00	99.25
ATOM	11855	OD1	ASP	1647	-1.277	18.753	70.480	1.00	99.25
ATOM	11856	OD2	ASP	1647	0.017	19.846	69.085	1.00	99.25
ATOM	11857	C	ASP	1647	-0.800	22.325	73.026	1.00	99.72
ATOM	11858	O	ASP	1647	-1.776	22.694	73.681	1.00	87.36
ATOM	11859	N	THR	1648	0.276	23.080	72.806	1.00	100.00
ATOM	11860	CA	THR	1648	0.431	24.428	73.339	1.00	97.09
ATOM	11861	CB	THR	1648	1.887	24.702	73.793	1.00	93.63
ATOM	11862	OG1	THR	1648	2.796	24.385	72.729	1.00	96.56
ATOM	11863	CG2	THR	1648	2.233	23.878	75.027	1.00	96.48
ATOM	11864	C	THR	1648	0.022	25.506	72.340	1.00	89.17
ATOM	11865	O	THR	1648	-0.768	26.393	72.669	1.00	65.92
ATOM	11866	N	GLY	1649	0.559	25.412	71.123	1.00	89.49
ATOM	11867	CA	GLY	1649	0.264	26.380	70.079	1.00	96.19
ATOM	11868	C	GLY	1649	-1.195	26.786	69.984	1.00	100.00
ATOM	11869	O	GLY	1649	-2.052	25.992	69.589	1.00	99.11
ATOM	11870	N	LYS	1650	-1.475	28.027	70.374	1.00	99.91
ATOM	11871	CA	LYS	1650	-2.831	28.559	70.342	1.00	99.91
ATOM	11872	CB	LYS	1650	-3.027	29.588	71.462	1.00	100.00
ATOM	11873	CG	LYS	1650	-2.947	28.993	72.863	1.00	100.00
ATOM	11874	CD	LYS	1650	-3.250	30.028	73.939	1.00	100.00
ATOM	11875	CE	LYS	1650	-3.222	29.398	75.330	1.00	100.00
ATOM	11876	NZ	LYS	1650	-3.536	30.369	76.419	1.00	100.00
ATOM	11877	C	LYS	1650	-3.195	29.152	68.978	1.00	99.91
ATOM	11878	O	LYS	1650	-3.480	30.345	68.855	1.00	100.00
ATOM	11879	N	ASP	1651	-3.159	28.301	67.956	1.00	94.17
ATOM	11880	CA	ASP	1651	-3.496	28.678	66.581	1.00	88.84
ATOM	11881	CB	ASP	1651	-2.244	28.658	65.700	1.00	90.48
ATOM	11882	CG	ASP	1651	-1.093	29.435	66.308	1.00	99.88
ATOM	11883	OD1	ASP	1651	-0.160	28.794	66.838	1.00	100.00
ATOM	11884	OD2	ASP	1651	-1.130	30.685	66.273	1.00	91.77
ATOM	11885	C	ASP	1651	-4.486	27.630	66.091	1.00	88.06
ATOM	11886	O	ASP	1651	-4.648	27.404	64.883	1.00	86.49
ATOM	11887	N	ALA	1652	-5.143	27.001	67.065	1.00	74.05
ATOM	11888	CA	ALA	1652	-6.118	25.949	66.830	1.00	67.89
ATOM	11889	CB	ALA	1652	-5.402	24.629	66.671	1.00	50.86
ATOM	11890	C	ALA	1652	-7.114	25.856	67.983	1.00	64.60
ATOM	11891	O	ALA	1652	-6.850	26.321	69.095	1.00	40.92
ATOM	11892	N	VAL	1653	-8.246	25.217	67.706	1.00	56.96
ATOM	11893	CA	VAL	1653	-9.314	25.024	68.684	1.00	56.59
ATOM	11894	CB	VAL	1653	-10.701	25.028	68.001	1.00	62.67
ATOM	11895	CG1	VAL	1653	-10.677	24.170	66.734	1.00	59.83
ATOM	11896	CG2	VAL	1653	-11.771	24.515	68.970	1.00	60.87
ATOM	11897	C	VAL	1653	-9.187	23.721	69.466	1.00	51.70
ATOM	11898	O	VAL	1653	-8.831	22.684	68.913	1.00	52.63
ATOM	11899	N	ASN	1654	-9.479	23.783	70.758	1.00	39.99
ATOM	11900	CA	ASN	1654	-9.433	22.603	71.602	1.00	43.13
ATOM	11901	CB	ASN	1654	-8.745	22.916	72.941	1.00	52.19
ATOM	11902	CG	ASN	1654	-7.314	23.413	72.757	1.00	64.39
ATOM	11903	OD1	ASN	1654	-6.959	23.891	71.684	1.00	77.15
ATOM	11904	ND2	ASN	1654	-6.485	23.291	73.789	1.00	75.39
ATOM	11905	C	ASN	1654	-10.890	22.209	71.798	1.00	39.21
ATOM	11906	O	ASN	1654	-11.723	23.040	72.167	1.00	33.56
ATOM	11907	N	CYS	1655	-11.214	20.971	71.441	1.00	27.21
ATOM	11908	CA	CYS	1655	-12.573	20.469	71.579	1.00	28.64

ATOM	11909	C	CYS	1655	-12.705	19.487	72.721	1.00	25.56
ATOM	11910	O	CYS	1655	-11.710	18.979	73.233	1.00	12.97
ATOM	11911	CB	CYS	1655	-13.027	19.834	70.288	1.00	13.00
ATOM	11912	SG	CYS	1655	-12.890	21.016	68.928	1.00	39.71
ATOM	11913	N	THR	1656	-13.944	19.217	73.105	1.00	2.00
ATOM	11914	CA	THR	1656	-14.231	18.330	74.215	1.00	8.19
ATOM	11915	CB	THR	1656	-14.225	19.134	75.562	1.00	13.47
ATOM	11916	OG1	THR	1656	-12.969	19.817	75.738	1.00	17.06
ATOM	11917	CG2	THR	1656	-14.453	18.206	76.739	1.00	19.52
ATOM	11918	C	THR	1656	-15.627	17.747	73.969	1.00	11.12
ATOM	11919	O	THR	1656	-16.517	18.466	73.513	1.00	31.58
ATOM	11920	N	TYR	1657	-15.825	16.455	74.244	1.00	28.62
ATOM	11921	CA	TYR	1657	-17.136	15.835	74.033	1.00	25.08
ATOM	11922	CB	TYR	1657	-17.430	15.688	72.541	1.00	12.24
ATOM	11923	CG	TYR	1657	-16.811	14.466	71.908	1.00	12.04
ATOM	11924	CD1	TYR	1657	-17.552	13.299	71.729	1.00	17.49
ATOM	11925	CE1	TYR	1657	-16.995	12.182	71.121	1.00	19.92
ATOM	11926	CD2	TYR	1657	-15.496	14.484	71.456	1.00	20.55
ATOM	11927	CE2	TYR	1657	-14.934	13.379	70.842	1.00	24.79
ATOM	11928	CZ	TYR	1657	-15.688	12.235	70.676	1.00	22.61
ATOM	11929	OH	TYR	1657	-15.128	11.141	70.072	1.00	22.65
ATOM	11930	C	TYR	1657	-17.336	14.484	74.706	1.00	28.47
ATOM	11931	O	TYR	1657	-16.387	13.741	74.946	1.00	25.99
ATOM	11932	N	LYS	1658	-18.602	14.143	74.917	1.00	26.65
ATOM	11933	CA	LYS	1658	-18.989	12.889	75.548	1.00	24.61
ATOM	11934	CB	LYS	1658	-20.200	13.140	76.437	1.00	29.05
ATOM	11935	CG	LYS	1658	-20.459	12.096	77.485	1.00	38.46
ATOM	11936	CD	LYS	1658	-21.317	12.687	78.591	1.00	46.78
ATOM	11937	CE	LYS	1658	-21.695	11.648	79.624	1.00	58.20
ATOM	11938	NZ	LYS	1658	-22.484	10.550	78.999	1.00	63.52
ATOM	11939	C	LYS	1658	-19.334	11.887	74.456	1.00	26.39
ATOM	11940	O	LYS	1658	-20.099	12.208	73.545	1.00	27.83
ATOM	11941	N	ASN	1659	-18.736	10.699	74.516	1.00	46.70
ATOM	11942	CA	ASN	1659	-18.994	9.667	73.509	1.00	47.60
ATOM	11943	CB	ASN	1659	-17.696	8.957	73.100	1.00	34.18
ATOM	11944	CG	ASN	1659	-16.964	8.338	74.276	1.00	37.23
ATOM	11945	OD1	ASN	1659	-17.506	8.227	75.376	1.00	30.34
ATOM	11946	ND2	ASN	1659	-15.720	7.931	74.045	1.00	29.52
ATOM	11947	C	ASN	1659	-20.024	8.655	73.984	1.00	50.77
ATOM	11948	O	ASN	1659	-20.393	8.664	75.158	1.00	39.04
ATOM	11949	N	GLU	1660	-20.469	7.788	73.069	1.00	46.73
ATOM	11950	CA	GLU	1660	-21.470	6.739	73.341	1.00	51.27
ATOM	11951	CB	GLU	1660	-21.386	5.637	72.261	1.00	55.08
ATOM	11952	CG	GLU	1660	-22.174	4.334	72.578	1.00	80.40
ATOM	11953	CD	GLU	1660	-21.682	3.098	71.800	1.00	84.28
ATOM	11954	OE1	GLU	1660	-21.636	3.141	70.550	1.00	84.28
ATOM	11955	OE2	GLU	1660	-21.354	2.072	72.440	1.00	84.28
ATOM	11956	C	GLU	1660	-21.338	6.089	74.722	1.00	49.66
ATOM	11957	O	GLU	1660	-22.334	5.867	75.413	1.00	31.17
ATOM	11958	N	ASP	1661	-20.094	5.813	75.108	1.00	8.09
ATOM	11959	CA	ASP	1661	-19.765	5.162	76.368	1.00	10.28
ATOM	11960	CB	ASP	1661	-18.477	4.361	76.195	1.00	37.59
ATOM	11961	CG	ASP	1661	-18.575	3.352	75.067	1.00	39.47
ATOM	11962	OD1	ASP	1661	-17.557	3.110	74.389	1.00	27.97
ATOM	11963	OD2	ASP	1661	-19.679	2.804	74.851	1.00	36.76
ATOM	11964	C	ASP	1661	-19.685	6.062	77.601	1.00	11.53
ATOM	11965	O	ASP	1661	-19.094	5.682	78.619	1.00	41.49

ATOM	11966	N	ASP	1662	-20.319	7.233	77.515	1.00	30.96
ATOM	11967	CA	ASP	1662	-20.379	8.200	78.613	1.00	33.18
ATOM	11968	CB	ASP	1662	-21.239	7.648	79.766	1.00	49.80
ATOM	11969	CG	ASP	1662	-22.710	7.440	79.373	1.00	59.58
ATOM	11970	OD1	ASP	1662	-23.059	7.564	78.176	1.00	61.96
ATOM	11971	OD2	ASP	1662	-23.524	7.154	80.278	1.00	64.11
ATOM	11972	C	ASP	1662	-19.018	8.656	79.137	1.00	30.83
ATOM	11973	O	ASP	1662	-18.845	8.881	80.341	1.00	38.52
ATOM	11974	N	CYS	1663	-18.066	8.809	78.221	1.00	26.00
ATOM	11975	CA	CYS	1663	-16.714	9.247	78.559	1.00	25.56
ATOM	11976	C	CYS	1663	-16.425	10.561	77.850	1.00	26.24
ATOM	11977	O	CYS	1663	-16.889	10.791	76.724	1.00	27.12
ATOM	11978	CB	CYS	1663	-15.693	8.196	78.114	1.00	38.43
ATOM	11979	SG	CYS	1663	-15.738	6.624	79.031	1.00	47.69
ATOM	11980	N	VAL	1664	-15.612	11.401	78.476	1.00	22.36
ATOM	11981	CA	VAL	1664	-15.300	12.692	77.874	1.00	23.90
ATOM	11982	CB	VAL	1664	-15.320	13.818	78.933	1.00	60.74
ATOM	11983	CG1	VAL	1664	-15.150	15.169	78.267	1.00	62.28
ATOM	11984	CG2	VAL	1664	-16.627	13.785	79.704	1.00	65.84
ATOM	11985	C	VAL	1664	-14.011	12.758	77.035	1.00	17.22
ATOM	11986	O	VAL	1664	-12.894	12.823	77.564	1.00	49.85
ATOM	11987	N	VAL	1665	-14.194	12.775	75.720	1.00	31.15
ATOM	11988	CA	VAL	1665	-13.089	12.843	74.767	1.00	30.75
ATOM	11989	CB	VAL	1665	-13.542	12.273	73.405	1.00	26.75
ATOM	11990	CG1	VAL	1665	-12.349	12.030	72.489	1.00	24.56
ATOM	11991	CG2	VAL	1665	-14.345	11.001	73.613	1.00	26.91
ATOM	11992	C	VAL	1665	-12.609	14.296	74.567	1.00	32.78
ATOM	11993	O	VAL	1665	-13.424	15.219	74.491	1.00	33.53
ATOM	11994	N	ARG	1666	-11.293	14.495	74.469	1.00	23.80
ATOM	11995	CA	ARG	1666	-10.739	15.834	74.268	1.00	20.72
ATOM	11996	CB	ARG	1666	-10.052	16.303	75.546	1.00	52.92
ATOM	11997	CG	ARG	1666	-10.982	16.332	76.736	1.00	71.25
ATOM	11998	CD	ARG	1666	-10.311	16.946	77.930	1.00	78.25
ATOM	11999	NE	ARG	1666	-9.753	18.247	77.590	1.00	80.36
ATOM	12000	CZ	ARG	1666	-8.795	18.850	78.283	1.00	82.69
ATOM	12001	NH1	ARG	1666	-8.285	18.270	79.363	1.00	87.64
ATOM	12002	NH2	ARG	1666	-8.341	20.030	77.890	1.00	85.61
ATOM	12003	C	ARG	1666	-9.767	15.943	73.087	1.00	18.01
ATOM	12004	O	ARG	1666	-8.682	15.366	73.133	1.00	44.03
ATOM	12005	N	PHE	1667	-10.150	16.681	72.037	1.00	21.75
ATOM	12006	CA	PHE	1667	-9.273	16.863	70.874	1.00	18.05
ATOM	12007	CB	PHE	1667	-9.771	16.092	69.656	1.00	23.66
ATOM	12008	CG	PHE	1667	-11.063	16.582	69.081	1.00	21.94
ATOM	12009	CD1	PHE	1667	-11.085	17.162	67.820	1.00	24.67
ATOM	12010	CD2	PHE	1667	-12.274	16.303	69.706	1.00	28.54
ATOM	12011	CE1	PHE	1667	-12.297	17.440	67.183	1.00	40.80
ATOM	12012	CE2	PHE	1667	-13.492	16.579	69.079	1.00	29.51
ATOM	12013	CZ	PHE	1667	-13.505	17.140	67.818	1.00	35.24
ATOM	12014	C	PHE	1667	-8.858	18.293	70.496	1.00	12.61
ATOM	12015	O	PHE	1667	-9.034	19.219	71.292	1.00	20.32
ATOM	12016	N	GLN	1668	-8.272	18.460	69.306	1.00	19.76
ATOM	12017	CA	GLN	1668	-7.778	19.768	68.847	1.00	25.31
ATOM	12018	CB	GLN	1668	-6.471	20.088	69.576	1.00	21.29
ATOM	12019	CG	GLN	1668	-5.692	21.262	69.012	1.00	38.79
ATOM	12020	CD	GLN	1668	-4.448	21.584	69.829	1.00	48.44
ATOM	12021	OE1	GLN	1668	-4.202	20.971	70.866	1.00	46.01
ATOM	12022	NE2	GLN	1668	-3.664	22.555	69.366	1.00	44.36

ATOM	12023	C	GLN	1668	-7.536	19.878	67.336	1.00	31.67
ATOM	12024	O	GLN	1668	-6.803	19.071	66.771	1.00	29.87
ATOM	12025	N	TYR	1669	-8.087	20.919	66.705	1.00	48.80
ATOM	12026	CA	TYR	1669	-7.923	21.127	65.263	1.00	61.84
ATOM	12027	CB	TYR	1669	-9.268	21.438	64.593	1.00	57.76
ATOM	12028	CG	TYR	1669	-9.165	21.574	63.085	1.00	76.71
ATOM	12029	CD1	TYR	1669	-8.545	20.586	62.320	1.00	86.17
ATOM	12030	CE1	TYR	1669	-8.425	20.707	60.931	1.00	99.85
ATOM	12031	CD2	TYR	1669	-9.674	22.690	62.423	1.00	88.70
ATOM	12032	CE2	TYR	1669	-9.561	22.821	61.028	1.00	97.02
ATOM	12033	CZ	TYR	1669	-8.938	21.822	60.291	1.00	100.00
ATOM	12034	OH	TYR	1669	-8.825	21.929	58.920	1.00	100.00
ATOM	12035	C	TYR	1669	-6.894	22.199	64.873	1.00	73.30
ATOM	12036	O	TYR	1669	-7.191	23.393	64.874	1.00	74.70
ATOM	12037	N	TYR	1670	-5.706	21.749	64.477	1.00	48.89
ATOM	12038	CA	TYR	1670	-4.612	22.622	64.065	1.00	53.25
ATOM	12039	CB	TYR	1670	-3.290	21.998	64.492	1.00	84.44
ATOM	12040	CG	TYR	1670	-2.355	22.938	65.205	1.00	95.93
ATOM	12041	CD1	TYR	1670	-1.371	23.634	64.508	1.00	99.99
ATOM	12042	CE1	TYR	1670	-0.475	24.476	65.168	1.00	100.00
ATOM	12043	CD2	TYR	1670	-2.428	23.105	66.588	1.00	100.00
ATOM	12044	CE2	TYR	1670	-1.540	23.944	67.262	1.00	100.00
ATOM	12045	CZ	TYR	1670	-0.564	24.624	66.545	1.00	100.00
ATOM	12046	OH	TYR	1670	0.321	25.446	67.205	1.00	100.00
ATOM	12047	C	TYR	1670	-4.621	22.773	62.548	1.00	58.62
ATOM	12048	O	TYR	1670	-5.433	22.144	61.866	1.00	79.50
ATOM	12049	N	GLU	1671	-3.723	23.614	62.031	1.00	95.12
ATOM	12050	CA	GLU	1671	-3.588	23.854	60.588	1.00	100.00
ATOM	12051	CB	GLU	1671	-4.948	24.160	59.944	1.00	100.00
ATOM	12052	CG	GLU	1671	-5.735	25.282	60.597	1.00	100.00
ATOM	12053	CD	GLU	1671	-7.060	25.531	59.905	1.00	100.00
ATOM	12054	OE1	GLU	1671	-8.078	25.666	60.616	1.00	100.00
ATOM	12055	OE2	GLU	1671	-7.084	25.591	58.653	1.00	100.00
ATOM	12056	C	GLU	1671	-2.574	24.947	60.214	1.00	100.00
ATOM	12057	O	GLU	1671	-2.878	26.138	60.293	1.00	100.00
ATOM	12058	N	ASP	1672	-1.384	24.531	59.772	1.00	100.00
ATOM	12059	CA	ASP	1672	-0.316	25.461	59.383	1.00	100.00
ATOM	12060	CB	ASP	1672	0.536	25.859	60.610	1.00	100.00
ATOM	12061	CG	ASP	1672	1.149	24.654	61.342	1.00	100.00
ATOM	12062	OD1	ASP	1672	0.485	24.106	62.247	1.00	100.00
ATOM	12063	OD2	ASP	1672	2.306	24.278	61.042	1.00	100.00
ATOM	12064	C	ASP	1672	0.580	24.937	58.248	1.00	100.00
ATOM	12065	O	ASP	1672	0.076	24.438	57.240	1.00	100.00
ATOM	12066	N	SER	1673	1.897	25.091	58.424	1.00	100.00
ATOM	12067	CA	SER	1673	2.946	24.670	57.478	1.00	100.00
ATOM	12068	CB	SER	1673	3.507	23.286	57.853	1.00	100.00
ATOM	12069	OG	SER	1673	2.497	22.293	57.885	1.00	100.00
ATOM	12070	C	SER	1673	2.588	24.733	55.989	1.00	100.00
ATOM	12071	O	SER	1673	2.784	25.766	55.341	1.00	100.00
ATOM	12072	N	SER	1674	2.095	23.621	55.449	1.00	99.84
ATOM	12073	CA	SER	1674	1.700	23.553	54.046	1.00	99.84
ATOM	12074	CB	SER	1674	2.597	22.569	53.274	1.00	100.00
ATOM	12075	OG	SER	1674	3.926	23.056	53.129	1.00	96.12
ATOM	12076	C	SER	1674	0.233	23.133	53.953	1.00	99.84
ATOM	12077	O	SER	1674	-0.148	22.353	53.077	1.00	100.00
ATOM	12078	N	GLY	1675	-0.587	23.680	54.849	1.00	100.00
ATOM	12079	CA	GLY	1675	-2.002	23.350	54.875	1.00	100.00

ATOM	12080	C	GLY	1675	-2.297	22.184	55.805	1.00100.00
ATOM	12081	O	GLY	1675	-3.177	21.361	55.533	1.00100.00
ATOM	12082	N	LYS	1676	-1.556	22.129	56.910	1.00100.00
ATOM	12083	CA	LYS	1676	-1.685	21.087	57.930	1.00 99.53
ATOM	12084	CB	LYS	1676	-0.674	21.382	59.052	1.00 72.74
ATOM	12085	CG	LYS	1676	-0.810	20.597	60.350	1.00 77.92
ATOM	12086	CD	LYS	1676	0.218	21.105	61.362	1.00 77.92
ATOM	12087	CE	LYS	1676	-0.110	20.712	62.799	1.00 77.92
ATOM	12088	NZ	LYS	1676	0.829	21.340	63.778	1.00 65.98
ATOM	12089	C	LYS	1676	-3.114	20.977	58.482	1.00 99.03
ATOM	12090	O	LYS	1676	-3.959	21.839	58.225	1.00 72.02
ATOM	12091	N	SER	1677	-3.393	19.884	59.187	1.00 93.65
ATOM	12092	CA	SER	1677	-4.706	19.654	59.777	1.00 92.48
ATOM	12093	CB	SER	1677	-5.761	19.450	58.680	1.00 99.99
ATOM	12094	OG	SER	1677	-5.417	18.371	57.828	1.00 99.99
ATOM	12095	C	SER	1677	-4.687	18.461	60.730	1.00 88.60
ATOM	12096	O	SER	1677	-5.384	17.471	60.513	1.00 99.71
ATOM	12097	N	ILE	1678	-3.870	18.546	61.775	1.00 47.28
ATOM	12098	CA	ILE	1678	-3.793	17.466	62.749	1.00 42.53
ATOM	12099	CB	ILE	1678	-2.448	17.447	63.510	1.00 57.09
ATOM	12100	CG2	ILE	1678	-2.424	16.286	64.510	1.00 64.59
ATOM	12101	CG1	ILE	1678	-1.291	17.279	62.527	1.00 67.91
ATOM	12102	CD1	ILE	1678	0.048	16.983	63.189	1.00 73.17
ATOM	12103	C	ILE	1678	-4.926	17.592	63.756	1.00 34.53
ATOM	12104	O	ILE	1678	-5.393	18.695	64.031	1.00 39.25
ATOM	12105	N	LEU	1679	-5.343	16.453	64.308	1.00 46.26
ATOM	12106	CA	LEU	1679	-6.429	16.395	65.281	1.00 37.80
ATOM	12107	CB	LEU	1679	-7.604	15.607	64.703	1.00 23.85
ATOM	12108	CG	LEU	1679	-8.523	16.313	63.708	1.00 27.43
ATOM	12109	CD1	LEU	1679	-9.314	15.296	62.885	1.00 26.77
ATOM	12110	CD2	LEU	1679	-9.455	17.228	64.481	1.00 25.31
ATOM	12111	C	LEU	1679	-6.029	15.780	66.614	1.00 33.85
ATOM	12112	O	LEU	1679	-6.784	14.998	67.179	1.00 36.07
ATOM	12113	N	TYR	1680	-4.874	16.184	67.136	1.00 22.75
ATOM	12114	CA	TYR	1680	-4.345	15.684	68.413	1.00 23.02
ATOM	12115	CB	TYR	1680	-3.430	16.742	69.027	1.00 44.57
ATOM	12116	CG	TYR	1680	-2.363	17.265	68.088	1.00 63.14
ATOM	12117	CD1	TYR	1680	-1.111	16.646	68.002	1.00 68.78
ATOM	12118	CE1	TYR	1680	-0.107	17.157	67.176	1.00 75.34
ATOM	12119	CD2	TYR	1680	-2.588	18.405	67.321	1.00 66.45
ATOM	12120	CE2	TYR	1680	-1.592	18.924	66.493	1.00 70.12
ATOM	12121	CZ	TYR	1680	-0.357	18.298	66.427	1.00 75.00
ATOM	12122	OH	TYR	1680	0.620	18.825	65.617	1.00 87.76
ATOM	12123	C	TYR	1680	-5.390	15.245	69.460	1.00 23.25
ATOM	12124	O	TYR	1680	-6.024	16.085	70.102	1.00 42.39
ATOM	12125	N	VAL	1681	-5.540	13.928	69.632	1.00 8.86
ATOM	12126	CA	VAL	1681	-6.502	13.354	70.583	1.00 5.36
ATOM	12127	CB	VAL	1681	-7.224	12.100	70.039	1.00 2.00
ATOM	12128	CG1	VAL	1681	-8.071	11.489	71.156	1.00 2.00
ATOM	12129	CG2	VAL	1681	-8.113	12.439	68.855	1.00 2.00
ATOM	12130	C	VAL	1681	-5.923	12.922	71.919	1.00 10.62
ATOM	12131	O	VAL	1681	-5.188	11.942	72.002	1.00 14.45
ATOM	12132	N	VAL	1682	-6.329	13.602	72.980	1.00 23.85
ATOM	12133	CA	VAL	1682	-5.848	13.243	74.294	1.00 25.73
ATOM	12134	CB	VAL	1682	-6.401	14.176	75.391	1.00 2.00
ATOM	12135	CG1	VAL	1682	-6.069	13.622	76.775	1.00 3.98
ATOM	12136	CG2	VAL	1682	-5.819	15.565	75.233	1.00 6.20

ATOM	12137	C	VAL	1682	-6.291	11.823	74.567	1.00	35.27
ATOM	12138	O	VAL	1682	-7.481	11.560	74.753	1.00	14.78
ATOM	12139	N	GLU	1683	-5.340	10.901	74.443	1.00	39.60
ATOM	12140	CA	GLU	1683	-5.593	9.498	74.725	1.00	36.22
ATOM	12141	CB	GLU	1683	-4.401	8.635	74.302	1.00	49.63
ATOM	12142	CG	GLU	1683	-3.752	7.807	75.405	1.00	60.97
ATOM	12143	CD	GLU	1683	-2.371	8.319	75.786	1.00	69.30
ATOM	12144	OE1	GLU	1683	-1.499	8.422	74.894	1.00	71.25
ATOM	12145	OE2	GLU	1683	-2.157	8.614	76.981	1.00	67.73
ATOM	12146	C	GLU	1683	-5.791	9.479	76.232	1.00	34.71
ATOM	12147	O	GLU	1683	-5.198	10.293	76.951	1.00	53.33
ATOM	12148	N	GLU	1684	-6.629	8.560	76.690	1.00	21.02
ATOM	12149	CA	GLU	1684	-6.984	8.429	78.104	1.00	32.93
ATOM	12150	CB	GLU	1684	-5.808	8.781	79.037	1.00	27.77
ATOM	12151	CG	GLU	1684	-4.719	7.732	79.128	1.00	45.00
ATOM	12152	CD	GLU	1684	-5.156	6.501	79.898	1.00	56.59
ATOM	12153	OE1	GLU	1684	-4.873	6.431	81.114	1.00	63.80
ATOM	12154	OE2	GLU	1684	-5.776	5.601	79.290	1.00	62.94
ATOM	12155	C	GLU	1684	-8.201	9.302	78.456	1.00	27.22
ATOM	12156	O	GLU	1684	-8.095	10.208	79.285	1.00	15.13
ATOM	12157	N	PRO	1685	-9.357	9.073	77.789	1.00	24.56
ATOM	12158	CD	PRO	1685	-9.502	8.245	76.578	1.00	22.38
ATOM	12159	CA	PRO	1685	-10.598	9.821	78.028	1.00	22.98
ATOM	12160	CB	PRO	1685	-11.602	9.102	77.135	1.00	21.66
ATOM	12161	CG	PRO	1685	-10.783	8.786	75.954	1.00	22.38
ATOM	12162	C	PRO	1685	-11.035	9.741	79.475	1.00	22.78
ATOM	12163	O	PRO	1685	-10.721	8.773	80.172	1.00	24.15
ATOM	12164	N	GLU	1686	-11.741	10.777	79.923	1.00	33.19
ATOM	12165	CA	GLU	1686	-12.241	10.844	81.291	1.00	35.82
ATOM	12166	CB	GLU	1686	-12.469	12.300	81.729	1.00	77.79
ATOM	12167	CG	GLU	1686	-11.320	12.951	82.530	1.00	97.18
ATOM	12168	CD	GLU	1686	-10.088	13.315	81.695	1.00	100.00
ATOM	12169	OE1	GLU	1686	-10.209	13.488	80.456	1.00	100.00
ATOM	12170	OE2	GLU	1686	-8.991	13.445	82.292	1.00	100.00
ATOM	12171	C	GLU	1686	-13.539	10.056	81.389	1.00	30.80
ATOM	12172	O	GLU	1686	-14.573	10.447	80.830	1.00	58.24
ATOM	12173	N	CYS	1687	-13.455	8.921	82.076	1.00	26.55
ATOM	12174	CA	CYS	1687	-14.596	8.038	82.260	1.00	32.93
ATOM	12175	C	CYS	1687	-14.924	7.866	83.730	1.00	32.01
ATOM	12176	O	CYS	1687	-14.100	8.149	84.607	1.00	5.46
ATOM	12177	CB	CYS	1687	-14.298	6.653	81.693	1.00	22.05
ATOM	12178	SG	CYS	1687	-13.917	6.557	79.926	1.00	50.71
ATOM	12179	N	PRO	1688	-16.155	7.422	84.023	1.00	12.27
ATOM	12180	CD	PRO	1688	-17.282	7.247	83.084	1.00	2.65
ATOM	12181	CA	PRO	1688	-16.562	7.206	85.419	1.00	18.94
ATOM	12182	CB	PRO	1688	-18.050	6.849	85.284	1.00	15.65
ATOM	12183	CG	PRO	1688	-18.179	6.323	83.834	1.00	7.27
ATOM	12184	C	PRO	1688	-15.724	6.062	86.058	1.00	30.50
ATOM	12185	O	PRO	1688	-15.512	5.003	85.443	1.00	34.36
ATOM	12186	N	LYS	1689	-15.198	6.302	87.258	1.00	83.91
ATOM	12187	CA	LYS	1689	-14.375	5.306	87.953	1.00	93.94
ATOM	12188	CB	LYS	1689	-13.308	5.995	88.807	1.00	100.00
ATOM	12189	CG	LYS	1689	-12.341	6.840	87.996	1.00	99.63
ATOM	12190	CD	LYS	1689	-11.377	7.615	88.882	1.00	100.00
ATOM	12191	CE	LYS	1689	-10.471	8.517	88.047	1.00	100.00
ATOM	12192	NZ	LYS	1689	-9.487	9.267	88.878	1.00	95.84
ATOM	12193	C	LYS	1689	-15.190	4.347	88.814	1.00	97.15

ATOM	12194	O	LYS	1689	-16.407	4.490	88.936	1.00100.00
ATOM	12195	N	GLY	1690	-14.508	3.364	89.398	1.00100.00
ATOM	12196	CA	GLY	1690	-15.180	2.390	90.242	1.00100.00
ATOM	12197	C	GLY	1690	-14.224	1.412	90.898	1.00100.00
ATOM	12198	O	GLY	1690	-14.384	1.062	92.068	1.00 99.82
ATOM	12199	C1	NAG	2044	22.258	44.851	8.458	1.00 25.80
ATOM	12200	C2	NAG	2044	21.326	43.652	8.245	1.00 41.22
ATOM	12201	N2	NAG	2044	19.971	43.986	8.667	1.00 42.41
ATOM	12202	C7	NAG	2044	19.016	44.297	7.789	1.00 50.68
ATOM	12203	O7	NAG	2044	19.205	44.357	6.573	1.00 66.03
ATOM	12204	C8	NAG	2044	17.640	44.622	8.356	1.00 41.88
ATOM	12205	C3	NAG	2044	21.820	42.474	9.090	1.00 44.97
ATOM	12206	O3	NAG	2044	21.104	41.297	8.738	1.00 44.33
ATOM	12207	C4	NAG	2044	23.321	42.206	8.948	1.00 52.52
ATOM	12208	O4	NAG	2044	23.708	41.288	10.002	1.00 66.69
ATOM	12209	C5	NAG	2044	24.140	43.510	9.030	1.00 53.37
ATOM	12210	O5	NAG	2044	23.599	44.501	8.136	1.00 51.58
ATOM	12211	C6	NAG	2044	25.587	43.312	8.611	1.00 61.95
ATOM	12212	O6	NAG	2044	25.834	43.841	7.313	1.00 71.01
ATOM	12213	C1	NAG	2045	24.919	41.461	10.658	1.00 75.23
ATOM	12214	C2	NAG	2045	24.854	40.819	12.058	1.00 97.91
ATOM	12215	N2	NAG	2045	25.456	41.695	13.057	1.00100.00
ATOM	12216	C7	NAG	2045	24.880	41.878	14.249	1.00100.00
ATOM	12217	O7	NAG	2045	23.830	41.321	14.583	1.00100.00
ATOM	12218	C8	NAG	2045	25.579	42.813	15.231	1.00 95.15
ATOM	12219	C3	NAG	2045	25.554	39.450	12.049	1.00100.00
ATOM	12220	O3	NAG	2045	25.151	38.692	13.186	1.00100.00
ATOM	12221	C4	NAG	2045	25.189	38.696	10.770	1.00100.00
ATOM	12222	O4	NAG	2045	25.764	37.393	10.780	1.00100.00
ATOM	12223	C5	NAG	2045	25.681	39.462	9.545	1.00 95.76
ATOM	12224	O5	NAG	2045	25.951	40.847	9.873	1.00 85.05
ATOM	12225	C6	NAG	2045	24.683	39.444	8.403	1.00 97.49
ATOM	12226	O6	NAG	2045	23.675	38.465	8.616	1.00 94.08
ATOM	12227	C1	NAG	2260	-3.396	70.493	40.902	1.00 71.14
ATOM	12228	C2	NAG	2260	-4.749	69.916	41.325	1.00 59.27
ATOM	12229	N2	NAG	2260	-5.793	70.328	40.400	1.00 64.92
ATOM	12230	C7	NAG	2260	-6.012	71.615	40.127	1.00 72.27
ATOM	12231	O7	NAG	2260	-5.361	72.533	40.629	1.00 75.78
ATOM	12232	C8	NAG	2260	-7.133	71.934	39.144	1.00 75.78
ATOM	12233	C3	NAG	2260	-5.101	70.345	42.751	1.00 57.46
ATOM	12234	O3	NAG	2260	-6.341	69.766	43.144	1.00 60.92
ATOM	12235	C4	NAG	2260	-3.997	69.888	43.692	1.00 57.07
ATOM	12236	O4	NAG	2260	-4.225	70.410	44.991	1.00 57.72
ATOM	12237	C5	NAG	2260	-2.630	70.350	43.185	1.00 60.15
ATOM	12238	O5	NAG	2260	-2.766	71.171	42.002	1.00 62.11
ATOM	12239	C6	NAG	2260	-1.707	69.201	42.840	1.00 64.76
ATOM	12240	O6	NAG	2260	-0.531	69.672	42.203	1.00 63.01
ATOM	12241	C1	NAG	2266	-2.931	54.362	41.678	1.00 45.43
ATOM	12242	C2	NAG	2266	-3.425	54.939	42.988	1.00 23.87
ATOM	12243	N2	NAG	2266	-4.678	55.651	42.779	1.00 26.08
ATOM	12244	C7	NAG	2266	-4.701	56.947	42.469	1.00 37.92
ATOM	12245	O7	NAG	2266	-3.684	57.651	42.396	1.00 44.51
ATOM	12246	C8	NAG	2266	-6.076	57.569	42.248	1.00 39.20
ATOM	12247	C3	NAG	2266	-2.292	55.824	43.543	1.00 18.69
ATOM	12248	O3	NAG	2266	-2.694	56.407	44.774	1.00 18.20
ATOM	12249	C4	NAG	2266	-1.027	54.951	43.742	1.00 15.48
ATOM	12250	O4	NAG	2266	0.108	55.768	44.120	1.00 17.74

ATOM	12251	C5	NAG	2266	-0.684	54.201	42.448	1.00	22.65
ATOM	12252	O5	NAG	2266	-1.833	53.493	41.934	1.00	19.07
ATOM	12253	C6	NAG	2266	0.377	53.165	42.689	1.00	25.55
ATOM	12254	O6	NAG	2266	-0.137	52.101	43.475	1.00	43.56
ATOM	12255	C1	NAG	2267	0.774	55.496	45.319	1.00	13.96
ATOM	12256	C2	NAG	2267	2.265	55.853	45.161	1.00	17.75
ATOM	12257	N2	NAG	2267	2.931	54.916	44.269	1.00	5.38
ATOM	12258	C7	NAG	2267	3.084	55.198	42.977	1.00	8.28
ATOM	12259	O7	NAG	2267	2.650	56.232	42.451	1.00	14.93
ATOM	12260	C8	NAG	2267	3.798	54.163	42.131	1.00	4.54
ATOM	12261	C3	NAG	2267	2.988	55.851	46.509	1.00	26.09
ATOM	12262	O3	NAG	2267	4.295	56.385	46.339	1.00	30.57
ATOM	12263	C4	NAG	2267	2.237	56.689	47.538	1.00	38.04
ATOM	12264	O4	NAG	2267	2.878	56.595	48.810	1.00	38.45
ATOM	12265	C5	NAG	2267	0.797	56.197	47.621	1.00	37.89
ATOM	12266	O5	NAG	2267	0.174	56.321	46.333	1.00	23.92
ATOM	12267	C6	NAG	2267	-0.054	57.000	48.587	1.00	47.05
ATOM	12268	O6	NAG	2267	0.739	57.646	49.571	1.00	55.88
ATOM	12269	C1	NAG	2458	-61.319	49.829	-11.392	1.00	100.00
ATOM	12270	C2	NAG	2458	-61.406	51.030	-10.438	1.00	91.79
ATOM	12271	N2	NAG	2458	-60.104	51.678	-10.331	1.00	91.79
ATOM	12272	C7	NAG	2458	-59.967	52.852	-9.716	1.00	89.43
ATOM	12273	O7	NAG	2458	-60.906	53.461	-9.198	1.00	90.94
ATOM	12274	C8	NAG	2458	-58.564	53.438	-9.662	1.00	90.67
ATOM	12275	C3	NAG	2458	-61.894	50.550	-9.062	1.00	91.05
ATOM	12276	O3	NAG	2458	-63.306	50.729	-8.969	1.00	78.64
ATOM	12277	C4	NAG	2458	-61.546	49.064	-8.863	1.00	91.79
ATOM	12278	O4	NAG	2458	-61.462	48.764	-7.472	1.00	83.21
ATOM	12279	C5	NAG	2458	-60.211	48.717	-9.543	1.00	91.79
ATOM	12280	O5	NAG	2458	-60.272	48.929	-10.983	1.00	91.79
ATOM	12281	C6	NAG	2458	-59.831	47.262	-9.326	1.00	83.76
ATOM	12282	O6	NAG	2458	-58.612	47.150	-8.610	1.00	74.20
ATOM	12283	C1	NAG	2585	-35.019	41.185	0.506	1.00	100.00
ATOM	12284	C2	NAG	2585	-33.576	40.706	0.293	1.00	100.00
ATOM	12285	N2	NAG	2585	-33.345	40.397	-1.112	1.00	100.00
ATOM	12286	C7	NAG	2585	-32.832	41.302	-1.945	1.00	100.00
ATOM	12287	O7	NAG	2585	-32.553	42.454	-1.607	1.00	100.00
ATOM	12288	C8	NAG	2585	-32.622	40.863	-3.388	1.00	99.51
ATOM	12289	C3	NAG	2585	-33.280	39.465	1.139	1.00	100.00
ATOM	12290	O3	NAG	2585	-31.916	39.096	0.976	1.00	100.00
ATOM	12291	C4	NAG	2585	-33.561	39.719	2.621	1.00	97.36
ATOM	12292	O4	NAG	2585	-33.712	38.456	3.302	1.00	98.62
ATOM	12293	C5	NAG	2585	-34.824	40.559	2.821	1.00	88.52
ATOM	12294	O5	NAG	2585	-35.635	40.528	1.625	1.00	94.87
ATOM	12295	C6	NAG	2585	-34.534	42.014	3.169	1.00	73.26
ATOM	12296	O6	NAG	2585	-35.633	42.620	3.831	1.00	44.99
ATOM	12297	C1	NAG	2586	-33.225	38.403	4.599	1.00	100.00
ATOM	12298	C2	NAG	2586	-31.720	38.749	4.611	1.00	100.00
ATOM	12299	N2	NAG	2586	-30.967	37.680	3.962	1.00	100.00
ATOM	12300	C7	NAG	2586	-29.868	37.931	3.248	1.00	100.00
ATOM	12301	O7	NAG	2586	-29.413	39.063	3.075	1.00	100.00
ATOM	12302	C8	NAG	2586	-29.167	36.736	2.621	1.00	99.00
ATOM	12303	C3	NAG	2586	-31.214	38.923	6.050	1.00	100.00
ATOM	12304	O3	NAG	2586	-29.907	39.474	6.029	1.00	100.00
ATOM	12305	C4	NAG	2586	-32.131	39.837	6.863	1.00	100.00
ATOM	12306	O4	NAG	2586	-31.723	39.833	8.224	1.00	100.00
ATOM	12307	C5	NAG	2586	-33.573	39.356	6.761	1.00	100.00

ATOM	12308	O5	NAG	2586	-33.977	39.340	5.381	1.00100.00
ATOM	12309	C6	NAG	2586	-34.545	40.258	7.503	1.00100.00
ATOM	12310	O6	NAG	2586	-34.636	39.901	8.875	1.00 97.18
ATOM	12311	C1	NAG	2943	-40.783	32.339	62.824	1.00 84.17
ATOM	12312	C2	NAG	2943	-42.281	32.404	62.505	1.00 82.40
ATOM	12313	N2	NAG	2943	-42.984	32.991	63.625	1.00 85.58
ATOM	12314	C7	NAG	2943	-43.748	34.060	63.442	1.00 91.11
ATOM	12315	O7	NAG	2943	-43.898	34.603	62.344	1.00 93.83
ATOM	12316	C8	NAG	2943	-44.447	34.609	64.673	1.00 92.55
ATOM	12317	C3	NAG	2943	-42.873	31.031	62.222	1.00 85.41
ATOM	12318	O3	NAG	2943	-44.203	31.177	61.744	1.00 89.87
ATOM	12319	C4	NAG	2943	-42.037	30.285	61.191	1.00 92.23
ATOM	12320	O4	NAG	2943	-41.541	29.068	61.783	1.00100.00
ATOM	12321	C5	NAG	2943	-40.856	31.144	60.750	1.00 94.60
ATOM	12322	O5	NAG	2943	-40.074	31.501	61.902	1.00 85.63
ATOM	12323	C6	NAG	2943	-41.254	32.433	60.042	1.00 98.68
ATOM	12324	O6	NAG	2943	-40.170	32.972	59.297	1.00100.00
ATOM	12325	C1	NAG	2944	-42.479	28.239	62.383	1.00100.00
ATOM	12326	C2	NAG	2944	-41.817	27.400	63.484	1.00100.00
ATOM	12327	N2	NAG	2944	-41.416	28.235	64.606	1.00100.00
ATOM	12328	C7	NAG	2944	-42.287	28.546	65.564	1.00100.00
ATOM	12329	O7	NAG	2944	-43.467	28.189	65.546	1.00100.00
ATOM	12330	C8	NAG	2944	-41.776	29.415	66.705	1.00100.00
ATOM	12331	C3	NAG	2944	-40.598	26.684	62.911	1.00100.00
ATOM	12332	O3	NAG	2944	-40.183	25.646	63.791	1.00 98.31
ATOM	12333	C4	NAG	2944	-40.940	26.102	61.540	1.00100.00
ATOM	12334	O4	NAG	2944	-40.309	26.864	60.521	1.00100.00
ATOM	12335	C5	NAG	2944	-42.465	26.066	61.305	1.00100.00
ATOM	12336	O5	NAG	2944	-43.046	27.398	61.362	1.00100.00
ATOM	12337	C6	NAG	2944	-43.225	25.189	62.294	1.00100.00
ATOM	12338	O6	NAG	2944	-43.480	23.895	61.757	1.00100.00
ATOM	12339	C1	NAG	2950	-29.106	22.235	75.807	1.00 93.98
ATOM	12340	C2	NAG	2950	-29.144	21.921	74.305	1.00 91.14
ATOM	12341	N2	NAG	2950	-28.306	22.870	73.580	1.00100.00
ATOM	12342	C7	NAG	2950	-27.003	22.659	73.394	1.00100.00
ATOM	12343	O7	NAG	2950	-26.405	21.674	73.823	1.00100.00
ATOM	12344	C8	NAG	2950	-26.243	23.722	72.619	1.00 98.61
ATOM	12345	C3	NAG	2950	-30.581	22.027	73.765	1.00 85.96
ATOM	12346	O3	NAG	2950	-30.636	21.464	72.463	1.00 85.19
ATOM	12347	C4	NAG	2950	-31.631	21.341	74.663	1.00 84.21
ATOM	12348	O4	NAG	2950	-32.952	21.791	74.266	1.00 98.30
ATOM	12349	C5	NAG	2950	-31.397	21.714	76.129	1.00 83.45
ATOM	12350	O5	NAG	2950	-30.044	21.421	76.506	1.00 83.16
ATOM	12351	C6	NAG	2950	-32.299	20.954	77.085	1.00 78.63
ATOM	12352	O6	NAG	2950	-31.744	20.890	78.390	1.00 78.36
ATOM	12353	C1	NAG	2951	-34.016	20.888	74.239	1.00100.00
ATOM	12354	C2	NAG	2951	-33.950	19.992	72.993	1.00100.00
ATOM	12355	N2	NAG	2951	-34.016	20.799	71.782	1.00100.00
ATOM	12356	C7	NAG	2951	-33.225	20.536	70.740	1.00100.00
ATOM	12357	O7	NAG	2951	-32.392	19.621	70.732	1.00100.00
ATOM	12358	C8	NAG	2951	-33.375	21.436	69.518	1.00100.00
ATOM	12359	C3	NAG	2951	-35.124	19.009	73.028	1.00100.00
ATOM	12360	O3	NAG	2951	-35.042	18.108	71.931	1.00100.00
ATOM	12361	C4	NAG	2951	-35.113	18.228	74.341	1.00100.00
ATOM	12362	O4	NAG	2951	-36.264	17.398	74.411	1.00100.00
ATOM	12363	C5	NAG	2951	-35.103	19.190	75.530	1.00100.00
ATOM	12364	O5	NAG	2951	-33.982	20.094	75.431	1.00100.00

ATOM	12365	C6	NAG	2951	-34.988	18.482	76.876	1.00100.00
ATOM	12366	O6	NAG	2951	-35.281	17.094	76.776	1.00100.00
ATOM	12367	C1	NAG	3320	-2.873	35.182	45.368	1.00 97.38
ATOM	12368	C2	NAG	3320	-2.921	36.677	45.031	1.00 86.99
ATOM	12369	N2	NAG	3320	-2.223	37.455	46.044	1.00 85.95
ATOM	12370	C7	NAG	3320	-0.903	37.642	45.974	1.00 88.39
ATOM	12371	O7	NAG	3320	-0.193	37.182	45.074	1.00 92.93
ATOM	12372	C8	NAG	3320	-0.273	38.469	47.080	1.00 85.74
ATOM	12373	C3	NAG	3320	-4.381	37.121	44.902	1.00 91.74
ATOM	12374	O3	NAG	3320	-5.023	36.361	43.883	1.00 92.93
ATOM	12375	C4	NAG	3320	-5.103	36.914	46.232	1.00 92.93
ATOM	12376	O4	NAG	3320	-5.303	38.168	46.868	1.00 92.93
ATOM	12377	C5	NAG	3320	-4.264	36.002	47.129	1.00 92.84
ATOM	12378	O5	NAG	3320	-3.830	34.848	46.381	1.00 88.63
ATOM	12379	C6	NAG	3320	-5.005	35.496	48.348	1.00 91.78
ATOM	12380	O6	NAG	3320	-4.232	34.531	49.046	1.00 90.86
ATOM	12381	C1	NAG	3371	-26.530	11.310	34.213	1.00100.00
ATOM	12382	C2	NAG	3371	-27.114	10.710	32.927	1.00 99.85
ATOM	12383	N2	NAG	3371	-28.326	11.420	32.538	1.00 98.22
ATOM	12384	C7	NAG	3371	-29.063	11.025	31.498	1.00 94.12
ATOM	12385	O7	NAG	3371	-28.810	10.025	30.826	1.00 91.96
ATOM	12386	C8	NAG	3371	-30.298	11.851	31.178	1.00 89.29
ATOM	12387	C3	NAG	3371	-27.390	9.220	33.119	1.00100.00
ATOM	12388	O3	NAG	3371	-26.159	8.511	33.167	1.00 93.68
ATOM	12389	C4	NAG	3371	-28.205	8.963	34.399	1.00100.00
ATOM	12390	O4	NAG	3371	-29.553	9.378	34.211	1.00100.00
ATOM	12391	C5	NAG	3371	-27.615	9.689	35.616	1.00100.00
ATOM	12392	O5	NAG	3371	-27.411	11.089	35.325	1.00 97.63
ATOM	12393	C6	NAG	3371	-26.297	9.127	36.131	1.00100.00
ATOM	12394	O6	NAG	3371	-26.023	7.840	35.595	1.00100.00
ATOM	12395	C1	NAG	3559	-34.593	30.687	32.273	1.00 59.45
ATOM	12396	C2	NAG	3559	-36.100	30.830	32.019	1.00 75.21
ATOM	12397	N2	NAG	3559	-36.515	32.210	32.192	1.00 79.85
ATOM	12398	C7	NAG	3559	-37.168	32.846	31.221	1.00 85.15
ATOM	12399	O7	NAG	3559	-37.475	32.315	30.152	1.00 89.71
ATOM	12400	C8	NAG	3559	-37.554	34.293	31.485	1.00 88.00
ATOM	12401	C3	NAG	3559	-36.906	29.909	32.936	1.00 77.40
ATOM	12402	O3	NAG	3559	-36.566	28.556	32.674	1.00 81.24
ATOM	12403	C4	NAG	3559	-36.646	30.231	34.410	1.00 80.08
ATOM	12404	O4	NAG	3559	-37.580	31.245	34.842	1.00 83.93
ATOM	12405	C5	NAG	3559	-35.200	30.724	34.589	1.00 78.94
ATOM	12406	O5	NAG	3559	-34.340	30.147	33.578	1.00 75.63
ATOM	12407	C6	NAG	3559	-34.616	30.348	35.941	1.00 84.07
ATOM	12408	O6	NAG	3559	-35.625	29.900	36.840	1.00 89.61
ATOM	12409	C1	NAG	3560	-37.976	31.297	36.178	1.00 81.52
ATOM	12410	C2	NAG	3560	-39.492	31.087	36.254	1.00 87.30
ATOM	12411	N2	NAG	3560	-40.147	31.877	35.218	1.00 85.73
ATOM	12412	C7	NAG	3560	-40.471	31.344	34.036	1.00 87.73
ATOM	12413	O7	NAG	3560	-40.244	30.170	33.737	1.00 89.39
ATOM	12414	C8	NAG	3560	-41.152	32.259	33.028	1.00 85.57
ATOM	12415	C3	NAG	3560	-40.035	31.502	37.636	1.00 90.81
ATOM	12416	O3	NAG	3560	-40.858	30.475	38.176	1.00 94.70
ATOM	12417	C4	NAG	3560	-38.913	31.800	38.623	1.00 95.99
ATOM	12418	O4	NAG	3560	-39.485	32.289	39.834	1.00 91.78
ATOM	12419	C5	NAG	3560	-37.946	32.848	38.054	1.00100.00
ATOM	12420	O5	NAG	3560	-37.652	32.614	36.650	1.00100.00
ATOM	12421	C6	NAG	3560	-36.611	32.920	38.782	1.00100.00

ATOM	12422	O6	NAG	3560	-35.721	33.828	38.141	1.00100.00
ATOM	12423	C1	NAG	3654	-6.355	24.359	74.764	1.00 96.80
ATOM	12424	C2	NAG	3654	-5.490	23.911	75.937	1.00100.00
ATOM	12425	N2	NAG	3654	-6.317	23.621	77.089	1.00100.00
ATOM	12426	C7	NAG	3654	-5.855	22.826	78.050	1.00100.00
ATOM	12427	O7	NAG	3654	-4.737	22.301	78.005	1.00100.00
ATOM	12428	C8	NAG	3654	-6.772	22.565	79.239	1.00100.00
ATOM	12429	C3	NAG	3654	-4.494	24.995	76.283	1.00100.00
ATOM	12430	O3	NAG	3654	-3.718	24.614	77.411	1.00100.00
ATOM	12431	C4	NAG	3654	-3.607	25.199	75.081	1.00100.00
ATOM	12432	O4	NAG	3654	-2.587	26.173	75.397	1.00100.00
ATOM	12433	C5	NAG	3654	-4.461	25.670	73.893	1.00100.00
ATOM	12434	O5	NAG	3654	-5.889	25.607	74.190	1.00100.00
ATOM	12435	C6	NAG	3654	-4.225	24.901	72.610	1.00100.00
ATOM	12436	O6	NAG	3654	-4.369	25.745	71.475	1.00100.00
ATOM	12437	C1	NAG	3655	-1.270	25.767	75.226	1.00100.00
ATOM	12438	C2	NAG	3655	-0.823	24.751	76.298	1.00100.00
ATOM	12439	N2	NAG	3655	-1.701	23.594	76.322	1.00100.00
ATOM	12440	C7	NAG	3655	-1.248	22.402	76.709	1.00100.00
ATOM	12441	O7	NAG	3655	-0.086	22.202	77.082	1.00100.00
ATOM	12442	C8	NAG	3655	-2.249	21.257	76.690	1.00100.00
ATOM	12443	C3	NAG	3655	-0.746	25.411	77.675	1.00100.00
ATOM	12444	O3	NAG	3655	-0.236	24.487	78.628	1.00100.00
ATOM	12445	C4	NAG	3655	0.182	26.613	77.579	1.00100.00
ATOM	12446	O4	NAG	3655	0.261	27.272	78.839	1.00100.00
ATOM	12447	C5	NAG	3655	-0.335	27.580	76.511	1.00100.00
ATOM	12448	O5	NAG	3655	-0.418	26.922	75.228	1.00100.00
ATOM	12449	C6	NAG	3655	0.609	28.752	76.332	1.00100.00
ATOM	12450	O6	NAG	3655	1.827	28.339	75.723	1.00100.00
ATOM	12451	MN	MN	4002	18.565	30.100	49.192	1.00 56.18
ATOM	12452	MN	MN	4004	-7.766	68.165	31.876	1.00 40.45
ATOM	12453	MN	MN	4005	-17.848	59.910	26.176	1.00 59.70
ATOM	12454	MN	MN	4006	-19.443	55.825	13.863	1.00 62.62
ATOM	12455	MN	MN	4007	-10.782	59.112	3.076	1.00 23.96
ATOM	12456	MN	MN	4008	-69.724	46.616	4.305	1.00 44.41
END								

APPLICATION
FOR
UNITED STATES LETTERS PATENT
FIGURE 10 (220 SHEETS)

TITLE: METHODS OF IDENTIFYING AND DESIGNING CELL
SURFACE RECEPTOR INHIBITORS

APPLICANT: M. AMIN ARNAOUT, THILO STEHLE, AND SIMON
GOODMAN

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No.

EL964756707US

January 30, 2004

Date of Deposit

Fig. 10

TABLE 2

REMARK FILENAME="./pdb/positional_15.pdb"

REMARK r= 0.231698 free_r= 0.318308

REMARK DATE:30-Oct-01 12:54:41 created by user: xiong

ATOM	1	N	PHE	1	-17.797	51.292	9.270	1.00	50.60
ATOM	2	CA	PHE	1	-18.157	49.917	8.915	1.00	42.83
ATOM	3	CB	PHE	1	-19.661	49.705	9.076	1.00	41.02
ATOM	4	CG	PHE	1	-20.487	50.626	8.235	1.00	26.02
ATOM	5	CD1	PHE	1	-21.210	51.656	8.825	1.00	23.18
ATOM	6	CD2	PHE	1	-20.534	50.471	6.857	1.00	17.83
ATOM	7	CE1	PHE	1	-21.967	52.523	8.058	1.00	22.63
ATOM	8	CE2	PHE	1	-21.282	51.326	6.080	1.00	21.86
ATOM	9	CZ	PHE	1	-22.005	52.358	6.682	1.00	24.91
ATOM	10	C	PHE	1	-17.765	49.552	7.488	1.00	40.34
ATOM	11	O	PHE	1	-18.094	48.467	7.009	1.00	27.86
ATOM	12	N	ASN	2	-17.183	50.501	6.763	1.00	40.52
ATOM	13	CA	ASN	2	-16.768	50.191	5.414	1.00	37.37
ATOM	14	CB	ASN	2	-17.952	50.103	4.459	1.00	50.47
ATOM	15	CG	ASN	2	-17.783	48.982	3.444	1.00	60.17
ATOM	16	OD1	ASN	2	-18.076	49.146	2.259	1.00	60.67
ATOM	17	ND2	ASN	2	-17.300	47.834	3.910	1.00	60.71
ATOM	18	C	ASN	2	-15.666	51.033	4.833	1.00	29.13
ATOM	19	O	ASN	2	-15.782	52.249	4.673	1.00	24.70
ATOM	20	N	LEU	3	-14.584	50.322	4.549	1.00	19.12
ATOM	21	CA	LEU	3	-13.376	50.852	3.972	1.00	19.57
ATOM	22	CB	LEU	3	-12.205	50.741	4.957	1.00	17.13
ATOM	23	CG	LEU	3	-12.217	51.390	6.341	1.00	16.13
ATOM	24	CD1	LEU	3	-11.647	50.398	7.322	1.00	19.17
ATOM	25	CD2	LEU	3	-11.404	52.678	6.364	1.00	9.30
ATOM	26	C	LEU	3	-13.099	49.891	2.837	1.00	18.06
ATOM	27	O	LEU	3	-13.269	48.683	2.984	1.00	16.26
ATOM	28	N	ASP	4	-12.651	50.430	1.715	1.00	24.04
ATOM	29	CA	ASP	4	-12.320	49.625	0.558	1.00	22.30
ATOM	30	CB	ASP	4	-11.807	50.515	-0.567	1.00	21.62
ATOM	31	CG	ASP	4	-11.156	49.726	-1.666	1.00	28.15
ATOM	32	OD1	ASP	4	-9.928	49.493	-1.585	1.00	34.93
ATOM	33	OD2	ASP	4	-11.875	49.315	-2.591	1.00	29.56
ATOM	34	C	ASP	4	-11.238	48.648	0.958	1.00	23.84
ATOM	35	O	ASP	4	-10.227	49.037	1.552	1.00	25.93
ATOM	36	N	VAL	5	-11.453	47.385	0.617	1.00	30.92
ATOM	37	CA	VAL	5	-10.500	46.322	0.925	1.00	36.38
ATOM	38	CB	VAL	5	-11.137	45.267	1.871	1.00	34.71
ATOM	39	CG1	VAL	5	-10.099	44.244	2.313	1.00	39.98
ATOM	40	CG2	VAL	5	-11.733	45.956	3.100	1.00	33.58
ATOM	41	C	VAL	5	-10.027	45.665	-0.377	1.00	36.14
ATOM	42	O	VAL	5	-9.195	44.752	-0.374	1.00	31.10
ATOM	43	N	ASP	6	-10.522	46.195	-1.490	1.00	38.63
ATOM	44	CA	ASP	6	-10.192	45.695	-2.820	1.00	44.55
ATOM	45	CB	ASP	6	-11.305	46.073	-3.804	1.00	53.82
ATOM	46	CG	ASP	6	-12.695	45.884	-3.214	1.00	63.87
ATOM	47	OD1	ASP	6	-13.341	46.898	-2.856	1.00	68.30
ATOM	48	OD2	ASP	6	-13.136	44.718	-3.093	1.00	67.85
ATOM	49	C	ASP	6	-8.879	46.284	-3.311	1.00	44.01
ATOM	50	O	ASP	6	-7.999	45.562	-3.792	1.00	41.53
ATOM	51	N	SER	7	-8.753	47.602	-3.169	1.00	45.90
ATOM	52	CA	SER	7	-7.563	48.310	-3.614	1.00	48.80

ATOM	53	CB	SER	7	-7.859	49.049	-4.919	1.00	52.16
ATOM	54	OG	SER	7	-8.319	48.149	-5.909	1.00	57.42
ATOM	55	C	SER	7	-6.967	49.276	-2.592	1.00	46.66
ATOM	56	O	SER	7	-6.995	50.498	-2.775	1.00	50.63
ATOM	57	N	PRO	8	-6.457	48.742	-1.479	1.00	41.98
ATOM	58	CD	PRO	8	-6.472	47.338	-1.031	1.00	41.71
ATOM	59	CA	PRO	8	-5.861	49.605	-0.466	1.00	39.38
ATOM	60	CB	PRO	8	-5.921	48.729	0.774	1.00	38.55
ATOM	61	CG	PRO	8	-5.615	47.380	0.216	1.00	37.89
ATOM	62	C	PRO	8	-4.411	49.870	-0.904	1.00	41.18
ATOM	63	O	PRO	8	-3.821	49.058	-1.633	1.00	39.48
ATOM	64	N	ALA	9	-3.855	51.011	-0.493	1.00	36.40
ATOM	65	CA	ALA	9	-2.482	51.375	-0.847	1.00	29.06
ATOM	66	CB	ALA	9	-2.205	52.815	-0.475	1.00	34.69
ATOM	67	C	ALA	9	-1.524	50.451	-0.124	1.00	25.43
ATOM	68	O	ALA	9	-1.526	50.385	1.108	1.00	20.86
ATOM	69	N	GLU	10	-0.704	49.742	-0.896	1.00	18.60
ATOM	70	CA	GLU	10	0.233	48.788	-0.325	1.00	28.01
ATOM	71	CB	GLU	10	0.071	47.427	-1.038	1.00	40.95
ATOM	72	CG	GLU	10	0.768	46.216	-0.391	1.00	51.01
ATOM	73	CD	GLU	10	2.175	45.954	-0.932	1.00	68.02
ATOM	74	OE1	GLU	10	3.156	46.218	-0.200	1.00	72.57
ATOM	75	OE2	GLU	10	2.304	45.465	-2.081	1.00	70.24
ATOM	76	C	GLU	10	1.665	49.281	-0.410	1.00	22.51
ATOM	77	O	GLU	10	2.185	49.462	-1.500	1.00	24.14
ATOM	78	N	TYR	11	2.299	49.480	0.744	1.00	17.61
ATOM	79	CA	TYR	11	3.687	49.941	0.808	1.00	18.52
ATOM	80	CB	TYR	11	3.786	51.190	1.674	1.00	23.39
ATOM	81	CG	TYR	11	2.987	52.343	1.133	1.00	35.00
ATOM	82	CD1	TYR	11	1.674	52.564	1.551	1.00	38.80
ATOM	83	CE1	TYR	11	0.908	53.601	1.007	1.00	40.80
ATOM	84	CD2	TYR	11	3.522	53.192	0.165	1.00	35.29
ATOM	85	CE2	TYR	11	2.766	54.227	-0.384	1.00	40.25
ATOM	86	CZ	TYR	11	1.461	54.426	0.038	1.00	43.15
ATOM	87	OH	TYR	11	0.714	55.433	-0.529	1.00	47.03
ATOM	88	C	TYR	11	4.571	48.864	1.399	1.00	18.06
ATOM	89	O	TYR	11	4.173	48.191	2.345	1.00	23.44
ATOM	90	N	SER	12	5.779	48.718	0.861	1.00	18.79
ATOM	91	CA	SER	12	6.725	47.715	1.358	1.00	20.82
ATOM	92	CB	SER	12	6.880	46.593	0.338	1.00	18.02
ATOM	93	OG	SER	12	7.354	47.108	-0.889	1.00	23.02
ATOM	94	C	SER	12	8.109	48.289	1.716	1.00	22.82
ATOM	95	O	SER	12	8.370	49.475	1.538	1.00	25.35
ATOM	96	N	GLY	13	8.986	47.440	2.236	1.00	20.31
ATOM	97	CA	GLY	13	10.321	47.877	2.609	1.00	22.83
ATOM	98	C	GLY	13	11.294	46.709	2.588	1.00	29.69
ATOM	99	O	GLY	13	10.873	45.573	2.345	1.00	36.85
ATOM	100	N	PRO	14	12.594	46.937	2.864	1.00	24.77
ATOM	101	CD	PRO	14	13.148	48.257	3.215	1.00	18.22
ATOM	102	CA	PRO	14	13.649	45.904	2.876	1.00	25.75
ATOM	103	CB	PRO	14	14.911	46.709	3.208	1.00	21.65
ATOM	104	CG	PRO	14	14.375	47.875	3.997	1.00	24.03
ATOM	105	C	PRO	14	13.451	44.722	3.835	1.00	21.71
ATOM	106	O	PRO	14	12.969	44.888	4.951	1.00	27.79
ATOM	107	N	GLU	15	13.866	43.535	3.405	1.00	26.01
ATOM	108	CA	GLU	15	13.725	42.317	4.214	1.00	32.28
ATOM	109	CB	GLU	15	14.078	41.066	3.396	1.00	49.17

ATOM	110	CG	GLU	15	15.585	40.895	3.109	1.00	72.63
ATOM	111	CD	GLU	15	15.905	39.735	2.165	1.00	80.81
ATOM	112	OE1	GLU	15	15.312	38.642	2.323	1.00	82.36
ATOM	113	OE2	GLU	15	16.762	39.922	1.265	1.00	83.00
ATOM	114	C	GLU	15	14.524	42.318	5.515	1.00	24.35
ATOM	115	O	GLU	15	15.747	42.516	5.528	1.00	13.66
ATOM	116	N	GLY	16	13.812	42.038	6.601	1.00	20.96
ATOM	117	CA	GLY	16	14.418	41.999	7.916	1.00	16.13
ATOM	118	C	GLY	16	14.557	43.372	8.527	1.00	11.42
ATOM	119	O	GLY	16	15.181	43.509	9.571	1.00	11.58
ATOM	120	N	SER	17	13.941	44.372	7.902	1.00	5.66
ATOM	121	CA	SER	17	14.015	45.746	8.377	1.00	2.00
ATOM	122	CB	SER	17	14.099	46.689	7.189	1.00	2.22
ATOM	123	OG	SER	17	12.807	47.012	6.722	1.00	2.00
ATOM	124	C	SER	17	12.830	46.167	9.238	1.00	5.54
ATOM	125	O	SER	17	12.706	47.330	9.610	1.00	2.12
ATOM	126	N	TYR	18	11.923	45.241	9.490	1.00	14.62
ATOM	127	CA	TYR	18	10.745	45.536	10.289	1.00	13.66
ATOM	128	CB	TYR	18	11.131	45.714	11.756	1.00	9.23
ATOM	129	CG	TYR	18	11.508	44.424	12.449	1.00	9.53
ATOM	130	CD1	TYR	18	11.476	44.327	13.836	1.00	9.48
ATOM	131	CE1	TYR	18	11.850	43.173	14.482	1.00	2.00
ATOM	132	CD2	TYR	18	11.929	43.312	11.728	1.00	4.64
ATOM	133	CE2	TYR	18	12.305	42.149	12.375	1.00	2.08
ATOM	134	CZ	TYR	18	12.268	42.094	13.751	1.00	2.00
ATOM	135	OH	TYR	18	12.668	40.962	14.407	1.00	9.41
ATOM	136	C	TYR	18	10.012	46.773	9.774	1.00	18.15
ATOM	137	O	TYR	18	9.575	47.621	10.553	1.00	25.83
ATOM	138	N	PHE	19	9.938	46.898	8.454	1.00	14.73
ATOM	139	CA	PHE	19	9.246	48.017	7.826	1.00	13.69
ATOM	140	CB	PHE	19	9.422	47.957	6.295	1.00	14.70
ATOM	141	CG	PHE	19	8.617	48.984	5.540	1.00	14.62
ATOM	142	CD1	PHE	19	7.368	48.663	5.013	1.00	18.65
ATOM	143	CD2	PHE	19	9.101	50.277	5.369	1.00	13.67
ATOM	144	CE1	PHE	19	6.609	49.612	4.329	1.00	21.32
ATOM	145	CE2	PHE	19	8.353	51.235	4.689	1.00	17.14
ATOM	146	CZ	PHE	19	7.101	50.901	4.166	1.00	19.24
ATOM	147	C	PHE	19	7.770	47.912	8.203	1.00	13.32
ATOM	148	O	PHE	19	7.064	47.035	7.717	1.00	23.79
ATOM	149	N	GLY	20	7.317	48.764	9.113	1.00	8.89
ATOM	150	CA	GLY	20	5.924	48.713	9.509	1.00	4.27
ATOM	151	C	GLY	20	5.723	48.536	10.999	1.00	3.34
ATOM	152	O	GLY	20	4.592	48.423	11.464	1.00	11.24
ATOM	153	N	PHE	21	6.811	48.519	11.761	1.00	2.34
ATOM	154	CA	PHE	21	6.715	48.360	13.207	1.00	2.29
ATOM	155	CB	PHE	21	8.101	48.150	13.813	1.00	3.51
ATOM	156	CG	PHE	21	8.067	47.724	15.241	1.00	2.00
ATOM	157	CD1	PHE	21	8.003	46.386	15.566	1.00	2.00
ATOM	158	CD2	PHE	21	8.096	48.655	16.255	1.00	2.00
ATOM	159	CE1	PHE	21	7.968	45.979	16.873	1.00	2.00
ATOM	160	CE2	PHE	21	8.061	48.256	17.567	1.00	2.00
ATOM	161	CZ	PHE	21	7.999	46.914	17.878	1.00	2.00
ATOM	162	C	PHE	21	6.035	49.561	13.858	1.00	2.00
ATOM	163	O	PHE	21	5.578	49.488	14.992	1.00	2.00
ATOM	164	N	ALA	22	6.004	50.677	13.145	1.00	2.00
ATOM	165	CA	ALA	22	5.368	51.881	13.651	1.00	2.00
ATOM	166	CB	ALA	22	6.304	52.637	14.530	1.00	8.05

ATOM	167	C	ALA	22	4.949	52.729	12.474	1.00	4.38
ATOM	168	O	ALA	22	5.748	53.006	11.578	1.00	5.35
ATOM	169	N	VAL	23	3.676	53.107	12.459	1.00	6.07
ATOM	170	CA	VAL	23	3.139	53.910	11.371	1.00	9.48
ATOM	171	CB	VAL	23	2.057	53.128	10.518	1.00	5.80
ATOM	172	CG1	VAL	23	2.662	51.870	9.920	1.00	5.06
ATOM	173	CG2	VAL	23	0.801	52.815	11.334	1.00	2.00
ATOM	174	C	VAL	23	2.528	55.203	11.877	1.00	8.78
ATOM	175	O	VAL	23	2.198	55.317	13.073	1.00	2.00
ATOM	176	N	ASP	24	2.451	56.185	10.969	1.00	5.75
ATOM	177	CA	ASP	24	1.838	57.477	11.245	1.00	8.18
ATOM	178	CB	ASP	24	2.630	58.292	12.271	1.00	14.74
ATOM	179	CG	ASP	24	1.714	59.016	13.276	1.00	25.26
ATOM	180	OD1	ASP	24	0.788	59.757	12.858	1.00	18.39
ATOM	181	OD2	ASP	24	1.911	58.828	14.496	1.00	33.95
ATOM	182	C	ASP	24	1.572	58.315	10.005	1.00	11.40
ATOM	183	O	ASP	24	2.070	58.020	8.904	1.00	7.80
ATOM	184	N	PHE	25	0.708	59.314	10.206	1.00	20.83
ATOM	185	CA	PHE	25	0.289	60.276	9.184	1.00	24.15
ATOM	186	CB	PHE	25	-1.190	60.649	9.365	1.00	24.07
ATOM	187	CG	PHE	25	-2.171	59.535	9.087	1.00	28.74
ATOM	188	CD1	PHE	25	-3.060	59.120	10.082	1.00	27.79
ATOM	189	CD2	PHE	25	-2.281	58.971	7.810	1.00	25.88
ATOM	190	CE1	PHE	25	-4.039	58.178	9.806	1.00	27.38
ATOM	191	CE2	PHE	25	-3.261	58.023	7.524	1.00	6.96
ATOM	192	CZ	PHE	25	-4.138	57.628	8.521	1.00	22.49
ATOM	193	C	PHE	25	1.092	61.579	9.305	1.00	25.54
ATOM	194	O	PHE	25	1.023	62.276	10.325	1.00	25.24
ATOM	195	N	PHE	26	1.856	61.912	8.273	1.00	28.25
ATOM	196	CA	PHE	26	2.598	63.155	8.301	1.00	29.39
ATOM	197	CB	PHE	26	3.997	63.005	7.716	1.00	29.72
ATOM	198	CG	PHE	26	4.757	64.301	7.678	1.00	34.21
ATOM	199	CD1	PHE	26	5.569	64.620	6.598	1.00	32.40
ATOM	200	CD2	PHE	26	4.629	65.223	8.724	1.00	28.18
ATOM	201	CE1	PHE	26	6.237	65.840	6.558	1.00	30.67
ATOM	202	CE2	PHE	26	5.287	66.433	8.691	1.00	17.29
ATOM	203	CZ	PHE	26	6.094	66.747	7.610	1.00	26.21
ATOM	204	C	PHE	26	1.842	64.199	7.494	1.00	31.22
ATOM	205	O	PHE	26	1.880	64.185	6.266	1.00	33.51
ATOM	206	N	VAL	27	1.171	65.111	8.185	1.00	31.87
ATOM	207	CA	VAL	27	0.424	66.165	7.514	1.00	31.05
ATOM	208	CB	VAL	27	-1.063	66.119	7.918	1.00	27.96
ATOM	209	CG1	VAL	27	-1.198	66.093	9.443	1.00	37.20
ATOM	210	CG2	VAL	27	-1.812	67.298	7.315	1.00	35.34
ATOM	211	C	VAL	27	1.033	67.570	7.736	1.00	30.68
ATOM	212	O	VAL	27	0.698	68.269	8.703	1.00	29.25
ATOM	213	N	PRO	28	1.960	67.981	6.846	1.00	26.93
ATOM	214	CD	PRO	28	2.456	67.184	5.709	1.00	17.57
ATOM	215	CA	PRO	28	2.639	69.284	6.902	1.00	21.91
ATOM	216	CB	PRO	28	3.489	69.274	5.635	1.00	16.17
ATOM	217	CG	PRO	28	3.770	67.819	5.429	1.00	14.76
ATOM	218	C	PRO	28	1.632	70.422	6.849	1.00	25.57
ATOM	219	O	PRO	28	0.611	70.312	6.170	1.00	32.96
ATOM	220	N	SER	29	1.931	71.514	7.549	1.00	31.47
ATOM	221	CA	SER	29	1.048	72.688	7.592	1.00	35.08
ATOM	222	CB	SER	29	1.333	73.524	8.859	1.00	39.03
ATOM	223	OG	SER	29	0.180	74.206	9.333	1.00	39.27

ATOM	224	C	SER	29	1.258	73.548	6.342	1.00	30.97
ATOM	225	O	SER	29	0.329	74.189	5.842	1.00	26.90
ATOM	226	N	ALA	30	2.483	73.521	5.827	1.00	32.50
ATOM	227	CA	ALA	30	2.854	74.288	4.648	1.00	33.46
ATOM	228	CB	ALA	30	4.296	74.726	4.778	1.00	40.01
ATOM	229	C	ALA	30	2.642	73.582	3.302	1.00	33.38
ATOM	230	O	ALA	30	3.156	74.043	2.284	1.00	34.34
ATOM	231	N	SER	31	1.898	72.473	3.295	1.00	37.67
ATOM	232	CA	SER	31	1.632	71.715	2.058	1.00	32.90
ATOM	233	CB	SER	31	2.644	70.587	1.869	1.00	21.20
ATOM	234	OG	SER	31	2.420	69.925	0.637	1.00	12.32
ATOM	235	C	SER	31	0.219	71.136	1.923	1.00	34.20
ATOM	236	O	SER	31	-0.375	70.637	2.892	1.00	30.92
ATOM	237	N	SER	32	-0.275	71.165	0.687	1.00	33.73
ATOM	238	CA	SER	32	-1.602	70.680	0.347	1.00	38.21
ATOM	239	CB	SER	32	-1.941	71.049	-1.097	1.00	40.81
ATOM	240	OG	SER	32	-1.103	70.350	-2.006	1.00	54.12
ATOM	241	C	SER	32	-1.722	69.174	0.518	1.00	42.06
ATOM	242	O	SER	32	-2.794	68.669	0.865	1.00	46.03
ATOM	243	N	ARG	33	-0.627	68.457	0.273	1.00	37.23
ATOM	244	CA	ARG	33	-0.640	67.006	0.397	1.00	38.20
ATOM	245	CB	ARG	33	0.000	66.377	-0.838	1.00	39.68
ATOM	246	CG	ARG	33	1.442	66.748	-1.089	1.00	44.90
ATOM	247	CD	ARG	33	1.888	66.083	-2.382	1.00	63.93
ATOM	248	NE	ARG	33	3.316	66.218	-2.650	1.00	71.31
ATOM	249	CZ	ARG	33	4.101	65.218	-3.051	1.00	77.53
ATOM	250	NH1	ARG	33	3.596	63.997	-3.232	1.00	76.22
ATOM	251	NH2	ARG	33	5.395	65.438	-3.269	1.00	78.62
ATOM	252	C	ARG	33	-0.048	66.409	1.691	1.00	37.37
ATOM	253	O	ARG	33	0.816	67.013	2.335	1.00	31.67
ATOM	254	N	MET	34	-0.574	65.243	2.087	1.00	34.70
ATOM	255	CA	MET	34	-0.117	64.516	3.281	1.00	30.61
ATOM	256	CB	MET	34	-1.258	64.292	4.295	1.00	30.66
ATOM	257	CG	MET	34	-2.601	63.867	3.720	1.00	34.58
ATOM	258	SD	MET	34	-3.849	65.186	3.803	1.00	41.07
ATOM	259	CE	MET	34	-4.012	65.442	5.581	1.00	27.75
ATOM	260	C	MET	34	0.585	63.190	2.944	1.00	24.51
ATOM	261	O	MET	34	0.463	62.683	1.826	1.00	21.02
ATOM	262	N	PHE	35	1.334	62.648	3.906	1.00	18.20
ATOM	263	CA	PHE	35	2.078	61.413	3.688	1.00	19.13
ATOM	264	CB	PHE	35	3.573	61.702	3.553	1.00	26.23
ATOM	265	CG	PHE	35	3.914	62.645	2.452	1.00	31.90
ATOM	266	CD1	PHE	35	3.683	64.010	2.593	1.00	31.20
ATOM	267	CD2	PHE	35	4.457	62.169	1.264	1.00	32.86
ATOM	268	CE1	PHE	35	3.984	64.882	1.572	1.00	29.46
ATOM	269	CE2	PHE	35	4.766	63.032	0.233	1.00	28.08
ATOM	270	CZ	PHE	35	4.526	64.389	0.383	1.00	32.91
ATOM	271	C	PHE	35	1.935	60.354	4.763	1.00	20.02
ATOM	272	O	PHE	35	1.352	60.570	5.826	1.00	14.03
ATOM	273	N	LEU	36	2.560	59.218	4.475	1.00	23.89
ATOM	274	CA	LEU	36	2.600	58.061	5.359	1.00	23.58
ATOM	275	CB	LEU	36	2.472	56.783	4.534	1.00	27.11
ATOM	276	CG	LEU	36	1.284	55.876	4.809	1.00	31.62
ATOM	277	CD1	LEU	36	0.052	56.423	4.110	1.00	30.48
ATOM	278	CD2	LEU	36	1.617	54.479	4.313	1.00	39.21
ATOM	279	C	LEU	36	3.970	58.036	6.020	1.00	17.87
ATOM	280	O	LEU	36	4.978	58.350	5.380	1.00	17.64

ATOM	281	N	LEU	37	4.015	57.675	7.290	1.00	2.68
ATOM	282	CA	LEU	37	5.298	57.597	7.966	1.00	9.22
ATOM	283	CB	LEU	37	5.423	58.627	9.084	1.00	9.43
ATOM	284	CG	LEU	37	5.403	60.090	8.672	1.00	2.00
ATOM	285	CD1	LEU	37	5.472	60.913	9.924	1.00	2.00
ATOM	286	CD2	LEU	37	6.543	60.404	7.733	1.00	2.00
ATOM	287	C	LEU	37	5.386	56.213	8.533	1.00	5.91
ATOM	288	O	LEU	37	4.547	55.811	9.329	1.00	2.74
ATOM	289	N	VAL	38	6.403	55.478	8.113	1.00	6.70
ATOM	290	CA	VAL	38	6.564	54.116	8.573	1.00	6.64
ATOM	291	CB	VAL	38	6.300	53.103	7.437	1.00	6.23
ATOM	292	CG1	VAL	38	6.170	51.722	8.014	1.00	13.47
ATOM	293	CG2	VAL	38	5.043	53.473	6.652	1.00	6.92
ATOM	294	C	VAL	38	7.942	53.857	9.156	1.00	3.20
ATOM	295	O	VAL	38	8.966	53.909	8.465	1.00	2.00
ATOM	296	N	GLY	39	7.960	53.592	10.452	1.00	2.87
ATOM	297	CA	GLY	39	9.211	53.302	11.111	1.00	8.40
ATOM	298	C	GLY	39	9.683	51.915	10.725	1.00	4.28
ATOM	299	O	GLY	39	8.889	50.985	10.620	1.00	2.00
ATOM	300	N	ALA	40	10.979	51.787	10.485	1.00	2.01
ATOM	301	CA	ALA	40	11.543	50.514	10.122	1.00	2.00
ATOM	302	CB	ALA	40	11.771	50.446	8.646	1.00	2.00
ATOM	303	C	ALA	40	12.845	50.292	10.861	1.00	7.61
ATOM	304	O	ALA	40	13.918	50.404	10.270	1.00	12.20
ATOM	305	N	PRO	41	12.777	49.997	12.179	1.00	11.01
ATOM	306	CD	PRO	41	11.565	49.701	12.965	1.00	4.25
ATOM	307	CA	PRO	41	13.993	49.750	12.976	1.00	2.00
ATOM	308	CB	PRO	41	13.430	49.313	14.313	1.00	2.00
ATOM	309	CG	PRO	41	12.081	48.699	13.936	1.00	2.00
ATOM	310	C	PRO	41	14.705	48.597	12.295	1.00	2.21
ATOM	311	O	PRO	41	14.109	47.935	11.446	1.00	8.90
ATOM	312	N	LYS	42	15.955	48.326	12.639	1.00	5.65
ATOM	313	CA	LYS	42	16.675	47.219	11.977	1.00	12.59
ATOM	314	CB	LYS	42	15.875	45.899	12.039	1.00	6.79
ATOM	315	CG	LYS	42	15.867	45.219	13.401	1.00	10.35
ATOM	316	CD	LYS	42	16.188	43.735	13.273	1.00	11.83
ATOM	317	CE	LYS	42	16.551	43.107	14.612	1.00	10.34
ATOM	318	NZ	LYS	42	15.413	43.096	15.583	1.00	14.84
ATOM	319	C	LYS	42	17.083	47.497	10.511	1.00	17.06
ATOM	320	O	LYS	42	17.924	46.783	9.950	1.00	14.87
ATOM	321	N	ALA	43	16.479	48.505	9.879	1.00	13.75
ATOM	322	CA	ALA	43	16.837	48.843	8.502	1.00	16.58
ATOM	323	CB	ALA	43	15.815	49.754	7.907	1.00	8.21
ATOM	324	C	ALA	43	18.204	49.518	8.484	1.00	23.08
ATOM	325	O	ALA	43	18.414	50.520	9.178	1.00	26.61
ATOM	326	N	ASN	44	19.124	48.967	7.690	1.00	26.66
ATOM	327	CA	ASN	44	20.482	49.500	7.573	1.00	23.25
ATOM	328	CB	ASN	44	21.344	48.561	6.748	1.00	13.49
ATOM	329	CG	ASN	44	21.827	47.385	7.554	1.00	16.91
ATOM	330	OD1	ASN	44	22.056	47.529	8.749	1.00	21.30
ATOM	331	ND2	ASN	44	21.986	46.223	6.923	1.00	18.87
ATOM	332	C	ASN	44	20.554	50.917	7.018	1.00	27.62
ATOM	333	O	ASN	44	19.757	51.306	6.162	1.00	27.25
ATOM	334	N	THR	45	21.488	51.701	7.552	1.00	30.72
ATOM	335	CA	THR	45	21.668	53.089	7.128	1.00	29.38
ATOM	336	CB	THR	45	21.259	54.087	8.238	1.00	22.94
ATOM	337	OG1	THR	45	21.968	53.785	9.446	1.00	14.44

ATOM	338	CG2	THR	45	19.774	54.010	8.504	1.00	23.21
ATOM	339	C	THR	45	23.110	53.382	6.744	1.00	33.58
ATOM	340	O	THR	45	24.034	52.646	7.113	1.00	37.81
ATOM	341	N	THR	46	23.293	54.479	6.016	1.00	31.99
ATOM	342	CA	THR	46	24.616	54.906	5.570	1.00	30.12
ATOM	343	CB	THR	46	24.507	55.852	4.382	1.00	27.96
ATOM	344	OG1	THR	46	23.460	56.803	4.623	1.00	27.30
ATOM	345	CG2	THR	46	24.222	55.067	3.125	1.00	31.62
ATOM	346	C	THR	46	25.459	55.585	6.649	1.00	30.43
ATOM	347	O	THR	46	26.470	56.219	6.338	1.00	32.10
ATOM	348	N	GLN	47	25.024	55.478	7.902	1.00	25.25
ATOM	349	CA	GLN	47	25.745	56.063	9.021	1.00	20.33
ATOM	350	CB	GLN	47	24.907	56.005	10.292	1.00	15.70
ATOM	351	CG	GLN	47	23.551	56.684	10.151	1.00	20.88
ATOM	352	CD	GLN	47	22.722	56.581	11.409	1.00	24.62
ATOM	353	OE1	GLN	47	23.189	56.926	12.498	1.00	26.55
ATOM	354	NE2	GLN	47	21.490	56.089	11.275	1.00	28.94
ATOM	355	C	GLN	47	27.021	55.263	9.183	1.00	24.02
ATOM	356	O	GLN	47	27.004	54.030	9.138	1.00	27.74
ATOM	357	N	PRO	48	28.161	55.966	9.296	1.00	25.01
ATOM	358	CD	PRO	48	28.201	57.442	9.261	1.00	22.13
ATOM	359	CA	PRO	48	29.512	55.421	9.452	1.00	17.88
ATOM	360	CB	PRO	48	30.332	56.673	9.728	1.00	21.57
ATOM	361	CG	PRO	48	29.618	57.711	8.898	1.00	14.20
ATOM	362	C	PRO	48	29.679	54.368	10.546	1.00	17.88
ATOM	363	O	PRO	48	29.603	54.669	11.748	1.00	12.07
ATOM	364	N	GLY	49	29.888	53.129	10.113	1.00	17.97
ATOM	365	CA	GLY	49	30.086	52.028	11.048	1.00	24.82
ATOM	366	C	GLY	49	28.928	51.698	11.981	1.00	25.19
ATOM	367	O	GLY	49	29.133	51.273	13.126	1.00	23.05
ATOM	368	N	ILE	50	27.710	51.849	11.475	1.00	21.88
ATOM	369	CA	ILE	50	26.512	51.577	12.250	1.00	21.71
ATOM	370	CB	ILE	50	25.712	52.881	12.473	1.00	13.43
ATOM	371	CG2	ILE	50	24.436	52.605	13.253	1.00	5.55
ATOM	372	CG1	ILE	50	26.582	53.919	13.187	1.00	12.54
ATOM	373	CD1	ILE	50	27.117	53.471	14.535	1.00	5.79
ATOM	374	C	ILE	50	25.621	50.555	11.537	1.00	29.08
ATOM	375	O	ILE	50	25.118	50.822	10.428	1.00	32.23
ATOM	376	N	VAL	51	25.422	49.397	12.184	1.00	29.91
ATOM	377	CA	VAL	51	24.580	48.312	11.642	1.00	20.06
ATOM	378	CB	VAL	51	25.142	46.929	11.944	1.00	20.86
ATOM	379	CG1	VAL	51	25.248	46.121	10.661	1.00	13.48
ATOM	380	CG2	VAL	51	26.469	47.042	12.692	1.00	31.24
ATOM	381	C	VAL	51	23.189	48.317	12.244	1.00	13.49
ATOM	382	O	VAL	51	23.037	48.251	13.460	1.00	6.80
ATOM	383	N	GLU	52	22.183	48.379	11.380	1.00	15.88
ATOM	384	CA	GLU	52	20.780	48.387	11.788	1.00	21.42
ATOM	385	CB	GLU	52	20.392	47.047	12.411	1.00	28.75
ATOM	386	CG	GLU	52	20.382	45.908	11.412	1.00	35.66
ATOM	387	CD	GLU	52	19.975	44.589	12.021	1.00	37.29
ATOM	388	OE1	GLU	52	19.295	44.583	13.071	1.00	40.90
ATOM	389	OE2	GLU	52	20.340	43.550	11.441	1.00	44.46
ATOM	390	C	GLU	52	20.406	49.531	12.718	1.00	20.00
ATOM	391	O	GLU	52	19.911	49.314	13.836	1.00	19.32
ATOM	392	N	GLY	53	20.644	50.750	12.237	1.00	16.40
ATOM	393	CA	GLY	53	20.325	51.938	13.005	1.00	12.14
ATOM	394	C	GLY	53	18.839	52.218	12.915	1.00	11.58

ATOM	395	O	GLY	53	18.243	52.769	13.846	1.00	8.51
ATOM	396	N	GLY	54	18.240	51.804	11.799	1.00	6.59
ATOM	397	CA	GLY	54	16.820	52.010	11.590	1.00	9.81
ATOM	398	C	GLY	54	16.554	53.348	10.938	1.00	10.89
ATOM	399	O	GLY	54	17.488	54.119	10.712	1.00	18.10
ATOM	400	N	GLN	55	15.292	53.636	10.641	1.00	5.29
ATOM	401	CA	GLN	55	14.950	54.898	10.010	1.00	9.54
ATOM	402	CB	GLN	55	15.691	55.032	8.693	1.00	10.31
ATOM	403	CG	GLN	55	15.415	53.880	7.763	1.00	19.18
ATOM	404	CD	GLN	55	16.454	53.761	6.682	1.00	32.39
ATOM	405	OE1	GLN	55	17.507	53.145	6.882	1.00	36.23
ATOM	406	NE2	GLN	55	16.170	54.344	5.520	1.00	32.59
ATOM	407	C	GLN	55	13.484	54.995	9.722	1.00	8.48
ATOM	408	O	GLN	55	12.847	54.006	9.386	1.00	19.88
ATOM	409	N	VAL	56	12.944	56.195	9.867	1.00	11.70
ATOM	410	CA	VAL	56	11.540	56.430	9.569	1.00	15.57
ATOM	411	CB	VAL	56	10.979	57.667	10.330	1.00	11.16
ATOM	412	CG1	VAL	56	9.569	57.999	9.856	1.00	15.03
ATOM	413	CG2	VAL	56	10.976	57.414	11.807	1.00	7.40
ATOM	414	C	VAL	56	11.519	56.747	8.079	1.00	18.10
ATOM	415	O	VAL	56	12.426	57.408	7.575	1.00	17.18
ATOM	416	N	LEU	57	10.550	56.195	7.359	1.00	20.15
ATOM	417	CA	LEU	57	10.437	56.490	5.941	1.00	14.06
ATOM	418	CB	LEU	57	10.418	55.218	5.088	1.00	6.17
ATOM	419	CG	LEU	57	11.751	54.472	5.002	1.00	4.32
ATOM	420	CD1	LEU	57	11.811	53.427	6.082	1.00	10.62
ATOM	421	CD2	LEU	57	11.911	53.814	3.654	1.00	2.34
ATOM	422	C	LEU	57	9.163	57.286	5.751	1.00	15.45
ATOM	423	O	LEU	57	8.208	57.136	6.529	1.00	6.10
ATOM	424	N	LYS	58	9.225	58.244	4.830	1.00	20.77
ATOM	425	CA	LYS	58	8.074	59.072	4.503	1.00	28.59
ATOM	426	CB	LYS	58	8.455	60.539	4.339	1.00	36.06
ATOM	427	CG	LYS	58	7.261	61.429	3.990	1.00	45.80
ATOM	428	CD	LYS	58	7.687	62.804	3.484	1.00	50.66
ATOM	429	CE	LYS	58	8.492	63.563	4.522	1.00	52.86
ATOM	430	NZ	LYS	58	8.982	64.857	3.984	1.00	60.49
ATOM	431	C	LYS	58	7.658	58.514	3.170	1.00	33.28
ATOM	432	O	LYS	58	8.471	58.445	2.254	1.00	30.33
ATOM	433	N	CYS	59	6.405	58.087	3.069	1.00	40.62
ATOM	434	CA	CYS	59	5.921	57.486	1.837	1.00	40.09
ATOM	435	C	CYS	59	4.937	58.386	1.110	1.00	44.06
ATOM	436	O	CYS	59	4.075	59.016	1.730	1.00	41.89
ATOM	437	CB	CYS	59	5.301	56.109	2.132	1.00	45.79
ATOM	438	SG	CYS	59	6.378	54.908	3.013	1.00	36.31
ATOM	439	N	ASP	60	5.097	58.450	-0.212	1.00	48.07
ATOM	440	CA	ASP	60	4.255	59.271	-1.080	1.00	54.32
ATOM	441	CB	ASP	60	4.942	59.498	-2.434	1.00	60.33
ATOM	442	CG	ASP	60	6.078	60.506	-2.368	1.00	68.53
ATOM	443	OD1	ASP	60	6.096	61.418	-3.225	1.00	75.64
ATOM	444	OD2	ASP	60	6.955	60.386	-1.483	1.00	68.89
ATOM	445	C	ASP	60	2.885	58.678	-1.340	1.00	53.42
ATOM	446	O	ASP	60	2.755	57.685	-2.050	1.00	56.21
ATOM	447	N	TRP	61	1.847	59.288	-0.784	1.00	58.74
ATOM	448	CA	TRP	61	0.514	58.781	-1.053	1.00	62.87
ATOM	449	CB	TRP	61	-0.515	59.290	-0.048	1.00	66.66
ATOM	450	CG	TRP	61	-1.859	58.752	-0.377	1.00	74.76
ATOM	451	CD2	TRP	61	-2.952	59.477	-0.948	1.00	80.00

ATOM	452	CE2	TRP	61	-3.957	58.534	-1.263	1.00	82.10
ATOM	453	CE3	TRP	61	-3.174	60.830	-1.239	1.00	84.37
ATOM	454	CD1	TRP	61	-2.243	57.437	-0.349	1.00	73.88
ATOM	455	NE1	TRP	61	-3.498	57.299	-0.888	1.00	76.56
ATOM	456	CZ2	TRP	61	-5.171	58.905	-1.856	1.00	82.58
ATOM	457	CZ3	TRP	61	-4.380	61.196	-1.830	1.00	87.24
ATOM	458	CH2	TRP	61	-5.361	60.234	-2.133	1.00	83.59
ATOM	459	C	TRP	61	0.135	59.224	-2.459	1.00	63.53
ATOM	460	O	TRP	61	-0.955	58.946	-2.945	1.00	62.38
ATOM	461	N	SER	62	1.071	59.897	-3.118	1.00	70.20
ATOM	462	CA	SER	62	0.888	60.394	-4.471	1.00	74.00
ATOM	463	CB	SER	62	2.092	61.272	-4.846	1.00	76.00
ATOM	464	OG	SER	62	1.946	61.857	-6.126	1.00	71.65
ATOM	465	C	SER	62	0.756	59.219	-5.438	1.00	74.40
ATOM	466	O	SER	62	1.160	59.314	-6.596	1.00	79.56
ATOM	467	N	SER	63	0.192	58.114	-4.945	1.00	76.35
ATOM	468	CA	SER	63	-0.015	56.886	-5.716	1.00	80.53
ATOM	469	CB	SER	63	-1.179	57.035	-6.706	1.00	84.25
ATOM	470	OG	SER	63	-2.432	56.885	-6.056	1.00	84.00
ATOM	471	C	SER	63	1.248	56.428	-6.431	1.00	81.60
ATOM	472	O	SER	63	1.201	55.692	-7.421	1.00	79.36
ATOM	473	N	THR	64	2.378	56.929	-5.949	1.00	79.30
ATOM	474	CA	THR	64	3.667	56.570	-6.498	1.00	82.94
ATOM	475	CB	THR	64	4.698	57.697	-6.293	1.00	83.01
ATOM	476	OG1	THR	64	4.175	58.928	-6.815	1.00	86.41
ATOM	477	CG2	THR	64	6.003	57.360	-7.007	1.00	81.21
ATOM	478	C	THR	64	4.075	55.368	-5.668	1.00	79.37
ATOM	479	O	THR	64	4.545	54.365	-6.199	1.00	80.75
ATOM	480	N	ARG	65	3.808	55.471	-4.366	1.00	79.16
ATOM	481	CA	ARG	65	4.119	54.440	-3.378	1.00	81.56
ATOM	482	CB	ARG	65	3.566	53.078	-3.809	1.00	82.72
ATOM	483	CG	ARG	65	2.050	52.966	-3.747	1.00	84.25
ATOM	484	CD	ARG	65	1.596	51.648	-4.355	1.00	87.74
ATOM	485	NE	ARG	65	2.321	50.508	-3.793	1.00	89.83
ATOM	486	CZ	ARG	65	2.640	49.404	-4.465	1.00	89.65
ATOM	487	NH1	ARG	65	2.303	49.272	-5.745	1.00	86.66
ATOM	488	NH2	ARG	65	3.298	48.430	-3.852	1.00	86.94
ATOM	489	C	ARG	65	5.603	54.328	-3.012	1.00	80.47
ATOM	490	O	ARG	65	5.978	53.498	-2.177	1.00	82.42
ATOM	491	N	ARG	66	6.441	55.160	-3.636	1.00	76.90
ATOM	492	CA	ARG	66	7.879	55.161	-3.357	1.00	71.99
ATOM	493	CB	ARG	66	8.636	56.041	-4.365	1.00	79.49
ATOM	494	CG	ARG	66	10.169	55.869	-4.359	1.00	85.31
ATOM	495	CD	ARG	66	10.901	57.088	-4.950	1.00	90.20
ATOM	496	NE	ARG	66	10.786	58.270	-4.089	1.00	96.17
ATOM	497	CZ	ARG	66	11.125	59.509	-4.443	1.00	96.45
ATOM	498	NH1	ARG	66	11.608	59.751	-5.654	1.00	99.66
ATOM	499	NH2	ARG	66	10.966	60.510	-3.585	1.00	93.60
ATOM	500	C	ARG	66	8.009	55.746	-1.959	1.00	63.20
ATOM	501	O	ARG	66	7.370	56.757	-1.640	1.00	60.83
ATOM	502	N	CYS	67	8.801	55.107	-1.111	1.00	51.81
ATOM	503	CA	CYS	67	8.922	55.628	0.230	1.00	47.39
ATOM	504	C	CYS	67	10.050	56.619	0.441	1.00	42.89
ATOM	505	O	CYS	67	9.823	57.816	0.317	1.00	45.64
ATOM	506	CB	CYS	67	8.901	54.503	1.272	1.00	47.58
ATOM	507	SG	CYS	67	7.232	53.775	1.542	1.00	46.98
ATOM	508	N	GLN	68	11.259	56.130	0.703	1.00	41.96

ATOM	509	CA	GLN	68	12.449	56.969	0.958	1.00	38.52
ATOM	510	CB	GLN	68	12.660	58.046	-0.123	1.00	51.58
ATOM	511	CG	GLN	68	13.032	57.481	-1.495	1.00	70.35
ATOM	512	CD	GLN	68	13.971	56.275	-1.408	1.00	80.62
ATOM	513	OE1	GLN	68	13.563	55.136	-1.660	1.00	83.92
ATOM	514	NE2	GLN	68	15.227	56.523	-1.039	1.00	84.48
ATOM	515	C	GLN	68	12.517	57.585	2.358	1.00	24.50
ATOM	516	O	GLN	68	11.655	58.374	2.756	1.00	17.09
ATOM	517	N	PRO	69	13.575	57.240	3.109	1.00	14.45
ATOM	518	CD	PRO	69	14.679	56.434	2.579	1.00	14.29
ATOM	519	CA	PRO	69	13.890	57.664	4.473	1.00	13.32
ATOM	520	CB	PRO	69	15.266	57.052	4.712	1.00	11.07
ATOM	521	CG	PRO	69	15.834	56.967	3.355	1.00	10.34
ATOM	522	C	PRO	69	13.908	59.152	4.712	1.00	11.83
ATOM	523	O	PRO	69	13.943	59.940	3.779	1.00	18.91
ATOM	524	N	ILE	70	13.831	59.514	5.985	1.00	15.15
ATOM	525	CA	ILE	70	13.835	60.893	6.421	1.00	13.64
ATOM	526	CB	ILE	70	12.678	61.197	7.409	1.00	11.52
ATOM	527	CG2	ILE	70	12.804	62.619	7.946	1.00	12.60
ATOM	528	CG1	ILE	70	11.324	61.005	6.715	1.00	8.50
ATOM	529	CD1	ILE	70	10.134	61.314	7.588	1.00	2.50
ATOM	530	C	ILE	70	15.132	61.065	7.147	1.00	19.40
ATOM	531	O	ILE	70	15.386	60.379	8.144	1.00	23.55
ATOM	532	N	GLU	71	15.954	61.970	6.633	1.00	28.34
ATOM	533	CA	GLU	71	17.251	62.255	7.223	1.00	34.88
ATOM	534	CB	GLU	71	18.103	63.129	6.293	1.00	48.75
ATOM	535	CG	GLU	71	17.339	64.251	5.558	1.00	67.14
ATOM	536	CD	GLU	71	16.994	63.908	4.106	1.00	68.63
ATOM	537	OE1	GLU	71	17.806	64.242	3.207	1.00	69.11
ATOM	538	OE2	GLU	71	15.911	63.324	3.869	1.00	69.04
ATOM	539	C	GLU	71	17.174	62.843	8.631	1.00	30.81
ATOM	540	O	GLU	71	16.846	64.008	8.843	1.00	28.85
ATOM	541	N	PHE	72	17.345	61.947	9.589	1.00	30.42
ATOM	542	CA	PHE	72	17.372	62.254	11.002	1.00	24.68
ATOM	543	CB	PHE	72	16.416	61.330	11.773	1.00	20.19
ATOM	544	CG	PHE	72	15.001	61.801	11.849	1.00	10.01
ATOM	545	CD1	PHE	72	14.059	61.361	10.925	1.00	8.00
ATOM	546	CD2	PHE	72	14.586	62.631	12.895	1.00	7.38
ATOM	547	CE1	PHE	72	12.722	61.738	11.046	1.00	2.69
ATOM	548	CE2	PHE	72	13.254	63.014	13.025	1.00	2.00
ATOM	549	CZ	PHE	72	12.321	62.567	12.100	1.00	2.00
ATOM	550	C	PHE	72	18.775	61.729	11.266	1.00	26.16
ATOM	551	O	PHE	72	18.992	60.515	11.137	1.00	34.51
ATOM	552	N	ASP	73	19.731	62.609	11.548	1.00	19.04
ATOM	553	CA	ASP	73	21.106	62.180	11.832	1.00	15.59
ATOM	554	CB	ASP	73	21.183	61.502	13.199	1.00	18.07
ATOM	555	CG	ASP	73	22.515	60.801	13.426	1.00	23.08
ATOM	556	OD1	ASP	73	23.565	61.455	13.273	1.00	34.03
ATOM	557	OD2	ASP	73	22.515	59.595	13.744	1.00	25.52
ATOM	558	C	ASP	73	21.746	61.249	10.811	1.00	13.23
ATOM	559	O	ASP	73	21.213	60.190	10.499	1.00	17.05
ATOM	560	N	ALA	74	22.955	61.585	10.389	1.00	7.03
ATOM	561	CA	ALA	74	23.649	60.757	9.417	1.00	3.62
ATOM	562	CB	ALA	74	23.804	61.507	8.125	1.00	4.24
ATOM	563	C	ALA	74	25.007	60.315	9.927	1.00	2.00
ATOM	564	O	ALA	74	25.732	59.587	9.242	1.00	2.00
ATOM	565	N	THR	75	25.328	60.738	11.144	1.00	2.00

ATOM	566	CA	THR	75	26.609	60.433	11.758	1.00	5.76
ATOM	567	CB	THR	75	26.936	61.400	12.932	1.00	7.17
ATOM	568	OG1	THR	75	26.373	60.881	14.146	1.00	6.71
ATOM	569	CG2	THR	75	26.377	62.803	12.672	1.00	3.21
ATOM	570	C	THR	75	26.667	59.043	12.346	1.00	7.48
ATOM	571	O	THR	75	25.678	58.327	12.382	1.00	15.30
ATOM	572	N	GLY	76	27.864	58.674	12.776	1.00	11.22
ATOM	573	CA	GLY	76	28.085	57.409	13.447	1.00	10.94
ATOM	574	C	GLY	76	28.079	57.825	14.907	1.00	6.92
ATOM	575	O	GLY	76	27.470	58.849	15.252	1.00	2.00
ATOM	576	N	ASN	77	28.761	57.089	15.772	1.00	9.52
ATOM	577	CA	ASN	77	28.753	57.499	17.171	1.00	15.29
ATOM	578	CB	ASN	77	28.423	56.337	18.124	1.00	18.98
ATOM	579	CG	ASN	77	28.865	54.988	17.609	1.00	20.47
ATOM	580	OD1	ASN	77	30.056	54.742	17.400	1.00	28.25
ATOM	581	ND2	ASN	77	27.903	54.084	17.445	1.00	20.56
ATOM	582	C	ASN	77	29.952	58.305	17.659	1.00	13.81
ATOM	583	O	ASN	77	31.094	58.099	17.235	1.00	16.91
ATOM	584	N	ARG	78	29.660	59.237	18.555	1.00	14.68
ATOM	585	CA	ARG	78	30.658	60.124	19.137	1.00	11.66
ATOM	586	CB	ARG	78	29.952	61.297	19.802	1.00	8.92
ATOM	587	CG	ARG	78	28.871	61.883	18.942	1.00	2.19
ATOM	588	CD	ARG	78	28.141	62.913	19.712	1.00	2.00
ATOM	589	NE	ARG	78	26.759	62.977	19.297	1.00	5.52
ATOM	590	CZ	ARG	78	25.761	63.178	20.139	1.00	10.48
ATOM	591	NH1	ARG	78	26.015	63.324	21.424	1.00	2.00
ATOM	592	NH2	ARG	78	24.516	63.259	19.695	1.00	30.07
ATOM	593	C	ARG	78	31.587	59.449	20.146	1.00	8.71
ATOM	594	O	ARG	78	31.311	58.356	20.638	1.00	10.04
ATOM	595	N	ASP	79	32.660	60.145	20.492	1.00	6.46
ATOM	596	CA	ASP	79	33.637	59.615	21.417	1.00	8.96
ATOM	597	CB	ASP	79	34.994	59.506	20.731	1.00	18.55
ATOM	598	CG	ASP	79	35.001	58.515	19.595	1.00	26.02
ATOM	599	OD1	ASP	79	35.756	57.528	19.709	1.00	34.65
ATOM	600	OD2	ASP	79	34.268	58.719	18.597	1.00	25.83
ATOM	601	C	ASP	79	33.817	60.420	22.687	1.00	12.44
ATOM	602	O	ASP	79	33.622	61.637	22.724	1.00	15.27
ATOM	603	N	TYR	80	34.211	59.705	23.730	1.00	12.84
ATOM	604	CA	TYR	80	34.489	60.284	25.032	1.00	18.85
ATOM	605	CB	TYR	80	34.061	59.292	26.121	1.00	13.58
ATOM	606	CG	TYR	80	34.575	59.553	27.528	1.00	6.80
ATOM	607	CD1	TYR	80	33.943	60.465	28.365	1.00	10.47
ATOM	608	CE1	TYR	80	34.344	60.627	29.704	1.00	14.19
ATOM	609	CD2	TYR	80	35.632	58.810	28.052	1.00	8.72
ATOM	610	CE2	TYR	80	36.044	58.963	29.385	1.00	13.55
ATOM	611	CZ	TYR	80	35.391	59.870	30.212	1.00	11.10
ATOM	612	OH	TYR	80	35.755	59.992	31.546	1.00	4.96
ATOM	613	C	TYR	80	36.004	60.485	25.022	1.00	21.74
ATOM	614	O	TYR	80	36.537	61.389	25.669	1.00	35.64
ATOM	615	N	ALA	81	36.680	59.647	24.247	1.00	20.96
ATOM	616	CA	ALA	81	38.121	59.700	24.112	1.00	29.94
ATOM	617	CB	ALA	81	38.780	59.016	25.291	1.00	26.80
ATOM	618	C	ALA	81	38.465	58.993	22.810	1.00	37.68
ATOM	619	O	ALA	81	37.578	58.752	21.991	1.00	38.45
ATOM	620	N	LYS	82	39.739	58.647	22.632	1.00	47.11
ATOM	621	CA	LYS	82	40.231	57.975	21.426	1.00	60.55
ATOM	622	CB	LYS	82	41.696	57.598	21.630	1.00	62.76

ATOM	623	CG	LYS	82	42.650	58.776	21.551	1.00	65.15
ATOM	624	CD	LYS	82	42.595	59.410	20.171	1.00	66.99
ATOM	625	CE	LYS	82	43.953	59.958	19.748	1.00	73.44
ATOM	626	NZ	LYS	82	44.964	58.880	19.538	1.00	70.93
ATOM	627	C	LYS	82	39.417	56.755	20.930	1.00	65.24
ATOM	628	O	LYS	82	38.390	56.920	20.266	1.00	70.03
ATOM	629	N	ASP	83	39.915	55.545	21.165	1.00	63.13
ATOM	630	CA	ASP	83	39.190	54.339	20.763	1.00	61.14
ATOM	631	CB	ASP	83	40.152	53.199	20.434	1.00	68.61
ATOM	632	CG	ASP	83	41.024	53.503	19.229	1.00	72.69
ATOM	633	OD1	ASP	83	40.819	52.875	18.167	1.00	73.40
ATOM	634	OD2	ASP	83	41.915	54.370	19.347	1.00	75.29
ATOM	635	C	ASP	83	38.336	53.990	21.966	1.00	56.27
ATOM	636	O	ASP	83	38.584	53.012	22.683	1.00	55.90
ATOM	637	N	ASP	84	37.347	54.841	22.199	1.00	48.37
ATOM	638	CA	ASP	84	36.458	54.693	23.329	1.00	46.16
ATOM	639	CB	ASP	84	37.203	55.133	24.592	1.00	45.81
ATOM	640	CG	ASP	84	36.393	54.944	25.844	1.00	54.37
ATOM	641	OD1	ASP	84	36.195	55.940	26.569	1.00	55.38
ATOM	642	OD2	ASP	84	35.964	53.800	26.109	1.00	65.53
ATOM	643	C	ASP	84	35.230	55.568	23.083	1.00	41.60
ATOM	644	O	ASP	84	35.187	56.720	23.518	1.00	42.94
ATOM	645	N	PRO	85	34.241	55.043	22.327	1.00	33.60
ATOM	646	CD	PRO	85	34.352	53.775	21.584	1.00	39.20
ATOM	647	CA	PRO	85	32.987	55.712	21.974	1.00	27.09
ATOM	648	CB	PRO	85	32.245	54.641	21.183	1.00	31.32
ATOM	649	CG	PRO	85	33.337	53.961	20.470	1.00	35.89
ATOM	650	C	PRO	85	32.170	56.180	23.159	1.00	21.38
ATOM	651	O	PRO	85	32.301	55.655	24.269	1.00	22.12
ATOM	652	N	LEU	86	31.332	57.178	22.889	1.00	13.07
ATOM	653	CA	LEU	86	30.454	57.792	23.874	1.00	13.07
ATOM	654	CB	LEU	86	30.387	59.307	23.606	1.00	6.97
ATOM	655	CG	LEU	86	29.658	60.322	24.498	1.00	2.00
ATOM	656	CD1	LEU	86	28.237	60.457	24.105	1.00	2.00
ATOM	657	CD2	LEU	86	29.773	59.961	25.942	1.00	2.00
ATOM	658	C	LEU	86	29.068	57.165	23.756	1.00	10.84
ATOM	659	O	LEU	86	28.335	57.024	24.744	1.00	6.96
ATOM	660	N	GLU	87	28.730	56.763	22.537	1.00	7.05
ATOM	661	CA	GLU	87	27.436	56.166	22.249	1.00	2.84
ATOM	662	CB	GLU	87	26.498	57.237	21.676	1.00	2.00
ATOM	663	CG	GLU	87	27.126	58.047	20.551	1.00	2.00
ATOM	664	CD	GLU	87	26.316	59.259	20.122	1.00	11.91
ATOM	665	OE1	GLU	87	25.564	59.815	20.953	1.00	13.13
ATOM	666	OE2	GLU	87	26.459	59.680	18.951	1.00	16.00
ATOM	667	C	GLU	87	27.630	55.038	21.242	1.00	8.15
ATOM	668	O	GLU	87	28.673	54.966	20.579	1.00	5.20
ATOM	669	N	PHE	88	26.653	54.131	21.180	1.00	7.76
ATOM	670	CA	PHE	88	26.666	52.999	20.248	1.00	7.09
ATOM	671	CB	PHE	88	26.953	51.703	20.995	1.00	3.67
ATOM	672	CG	PHE	88	28.123	51.797	21.920	1.00	3.37
ATOM	673	CD1	PHE	88	27.957	52.305	23.211	1.00	2.00
ATOM	674	CD2	PHE	88	29.398	51.413	21.497	1.00	2.00
ATOM	675	CE1	PHE	88	29.046	52.434	24.075	1.00	2.00
ATOM	676	CE2	PHE	88	30.502	51.536	22.348	1.00	2.00
ATOM	677	CZ	PHE	88	30.326	52.049	23.646	1.00	4.60
ATOM	678	C	PHE	88	25.286	52.964	19.605	1.00	8.77
ATOM	679	O	PHE	88	24.308	52.508	20.198	1.00	19.70

ATOM	680	N	LYS	89	25.206	53.477	18.390	1.00	8.75
ATOM	681	CA	LYS	89	23.936	53.564	17.700	1.00	9.49
ATOM	682	CB	LYS	89	23.933	54.780	16.772	1.00	15.54
ATOM	683	CG	LYS	89	24.263	56.137	17.385	1.00	4.98
ATOM	684	CD	LYS	89	24.253	57.150	16.254	1.00	12.64
ATOM	685	CE	LYS	89	24.468	58.582	16.709	1.00	24.99
ATOM	686	NZ	LYS	89	24.610	59.493	15.524	1.00	13.70
ATOM	687	C	LYS	89	23.532	52.338	16.896	1.00	13.47
ATOM	688	O	LYS	89	22.410	52.289	16.400	1.00	19.06
ATOM	689	N	SER	90	24.444	51.387	16.694	1.00	18.30
ATOM	690	CA	SER	90	24.110	50.184	15.918	1.00	16.17
ATOM	691	CB	SER	90	25.366	49.389	15.516	1.00	12.39
ATOM	692	OG	SER	90	26.337	49.373	16.556	1.00	32.91
ATOM	693	C	SER	90	23.128	49.328	16.706	1.00	16.80
ATOM	694	O	SER	90	23.303	49.122	17.918	1.00	18.40
ATOM	695	N	HIS	91	22.061	48.911	16.018	1.00	12.67
ATOM	696	CA	HIS	91	20.978	48.094	16.583	1.00	11.32
ATOM	697	CB	HIS	91	21.513	46.782	17.201	1.00	7.42
ATOM	698	CG	HIS	91	22.252	45.898	16.242	1.00	2.00
ATOM	699	CD2	HIS	91	23.490	45.345	16.313	1.00	8.01
ATOM	700	ND1	HIS	91	21.704	45.453	15.057	1.00	5.12
ATOM	701	CE1	HIS	91	22.570	44.662	14.439	1.00	8.70
ATOM	702	NE2	HIS	91	23.660	44.580	15.180	1.00	9.65
ATOM	703	C	HIS	91	20.213	48.902	17.642	1.00	9.22
ATOM	704	O	HIS	91	19.755	48.366	18.665	1.00	8.69
ATOM	705	N	GLN	92	20.080	50.199	17.394	1.00	4.38
ATOM	706	CA	GLN	92	19.395	51.069	18.334	1.00	8.89
ATOM	707	CB	GLN	92	19.879	52.522	18.200	1.00	9.84
ATOM	708	CG	GLN	92	19.597	53.201	16.859	1.00	2.06
ATOM	709	CD	GLN	92	20.259	54.578	16.735	1.00	10.49
ATOM	710	OE1	GLN	92	20.408	55.083	15.637	1.00	21.79
ATOM	711	NE2	GLN	92	20.645	55.184	17.858	1.00	10.85
ATOM	712	C	GLN	92	17.892	51.003	18.203	1.00	7.61
ATOM	713	O	GLN	92	17.178	51.460	19.089	1.00	10.92
ATOM	714	N	TRP	93	17.410	50.400	17.121	1.00	2.00
ATOM	715	CA	TRP	93	15.980	50.298	16.897	1.00	3.38
ATOM	716	CB	TRP	93	15.269	49.600	18.077	1.00	2.00
ATOM	717	CG	TRP	93	15.167	48.081	17.970	1.00	6.44
ATOM	718	CD2	TRP	93	13.990	47.316	17.690	1.00	2.69
ATOM	719	CE2	TRP	93	14.367	45.956	17.665	1.00	3.53
ATOM	720	CE3	TRP	93	12.651	47.646	17.452	1.00	5.72
ATOM	721	CD1	TRP	93	16.186	47.170	18.101	1.00	13.11
ATOM	722	NE1	TRP	93	15.713	45.895	17.921	1.00	4.14
ATOM	723	CZ2	TRP	93	13.457	44.932	17.414	1.00	4.99
ATOM	724	CZ3	TRP	93	11.742	46.620	17.198	1.00	6.28
ATOM	725	CH2	TRP	93	12.152	45.283	17.183	1.00	7.11
ATOM	726	C	TRP	93	15.354	51.673	16.648	1.00	7.67
ATOM	727	O	TRP	93	14.211	51.927	17.037	1.00	9.34
ATOM	728	N	PHE	94	16.105	52.576	16.031	1.00	7.10
ATOM	729	CA	PHE	94	15.549	53.892	15.728	1.00	13.84
ATOM	730	CB	PHE	94	16.605	54.809	15.079	1.00	16.24
ATOM	731	CG	PHE	94	16.069	56.158	14.663	1.00	14.17
ATOM	732	CD1	PHE	94	15.519	57.029	15.606	1.00	12.51
ATOM	733	CD2	PHE	94	16.052	56.530	13.321	1.00	10.97
ATOM	734	CE1	PHE	94	14.951	58.244	15.216	1.00	10.61
ATOM	735	CE2	PHE	94	15.484	57.746	12.921	1.00	8.37
ATOM	736	CZ	PHE	94	14.935	58.598	13.869	1.00	10.16

ATOM	737	C	PHE	94	14.338	53.721	14.799	1.00	14.94
ATOM	738	O	PHE	94	14.404	53.027	13.787	1.00	19.29
ATOM	739	N	GLY	95	13.224	54.342	15.157	1.00	13.36
ATOM	740	CA	GLY	95	12.041	54.234	14.330	1.00	17.07
ATOM	741	C	GLY	95	11.068	53.251	14.931	1.00	18.33
ATOM	742	O	GLY	95	10.052	52.907	14.325	1.00	20.25
ATOM	743	N	ALA	96	11.397	52.776	16.126	1.00	14.71
ATOM	744	CA	ALA	96	10.543	51.831	16.810	1.00	9.49
ATOM	745	CB	ALA	96	11.198	51.361	18.085	1.00	6.22
ATOM	746	C	ALA	96	9.236	52.533	17.115	1.00	8.99
ATOM	747	O	ALA	96	8.171	51.912	17.070	1.00	13.19
ATOM	748	N	SER	97	9.322	53.830	17.400	1.00	6.13
ATOM	749	CA	SER	97	8.139	54.628	17.717	1.00	13.70
ATOM	750	CB	SER	97	8.070	54.919	19.212	1.00	7.09
ATOM	751	OG	SER	97	9.143	55.728	19.617	1.00	11.15
ATOM	752	C	SER	97	8.159	55.918	16.921	1.00	10.18
ATOM	753	O	SER	97	9.188	56.585	16.851	1.00	12.74
ATOM	754	N	VAL	98	7.023	56.250	16.309	1.00	7.73
ATOM	755	CA	VAL	98	6.915	57.447	15.471	1.00	11.52
ATOM	756	CB	VAL	98	6.887	57.086	13.976	1.00	3.00
ATOM	757	CG1	VAL	98	6.828	58.347	13.131	1.00	7.20
ATOM	758	CG2	VAL	98	8.075	56.240	13.603	1.00	2.12
ATOM	759	C	VAL	98	5.678	58.309	15.720	1.00	17.78
ATOM	760	O	VAL	98	4.544	57.820	15.661	1.00	23.14
ATOM	761	N	ARG	99	5.901	59.600	15.945	1.00	13.78
ATOM	762	CA	ARG	99	4.814	60.536	16.166	1.00	16.78
ATOM	763	CB	ARG	99	4.657	60.852	17.639	1.00	12.73
ATOM	764	CG	ARG	99	3.730	59.890	18.343	1.00	28.32
ATOM	765	CD	ARG	99	2.315	59.947	17.761	1.00	45.62
ATOM	766	NE	ARG	99	1.420	59.000	18.427	1.00	57.62
ATOM	767	CZ	ARG	99	1.442	57.680	18.246	1.00	56.85
ATOM	768	NH1	ARG	99	2.310	57.131	17.407	1.00	50.01
ATOM	769	NH2	ARG	99	0.621	56.902	18.937	1.00	58.26
ATOM	770	C	ARG	99	5.004	61.796	15.340	1.00	20.68
ATOM	771	O	ARG	99	6.125	62.146	14.973	1.00	26.02
ATOM	772	N	SER	100	3.896	62.466	15.036	1.00	20.63
ATOM	773	CA	SER	100	3.931	63.660	14.216	1.00	14.97
ATOM	774	CB	SER	100	3.920	63.251	12.746	1.00	10.27
ATOM	775	OG	SER	100	3.524	64.320	11.907	1.00	13.36
ATOM	776	C	SER	100	2.748	64.563	14.467	1.00	18.52
ATOM	777	O	SER	100	1.616	64.102	14.567	1.00	27.02
ATOM	778	N	LYS	101	3.026	65.855	14.598	1.00	22.37
ATOM	779	CA	LYS	101	1.984	66.857	14.772	1.00	26.08
ATOM	780	CB	LYS	101	2.474	68.000	15.667	1.00	21.70
ATOM	781	CG	LYS	101	1.688	68.205	16.964	1.00	20.35
ATOM	782	CD	LYS	101	0.210	68.508	16.709	1.00	22.64
ATOM	783	CE	LYS	101	-0.386	69.480	17.736	1.00	16.09
ATOM	784	NZ	LYS	101	-0.141	69.093	19.159	1.00	14.86
ATOM	785	C	LYS	101	1.785	67.363	13.339	1.00	34.20
ATOM	786	O	LYS	101	0.967	66.836	12.573	1.00	45.13
ATOM	787	N	GLN	102	2.614	68.318	12.949	1.00	31.47
ATOM	788	CA	GLN	102	2.552	68.875	11.616	1.00	32.43
ATOM	789	CB	GLN	102	1.386	69.849	11.496	1.00	32.68
ATOM	790	CG	GLN	102	1.476	71.030	12.438	1.00	34.94
ATOM	791	CD	GLN	102	0.292	71.110	13.359	1.00	38.73
ATOM	792	OE1	GLN	102	-0.803	70.681	13.005	1.00	43.91
ATOM	793	NE2	GLN	102	0.499	71.660	14.552	1.00	44.37

ATOM	794	C	GLN	102	3.862	69.597	11.408	1.00	38.09
ATOM	795	O	GLN	102	4.269	70.422	12.232	1.00	36.58
ATOM	796	N	ASP	103	4.523	69.275	10.303	1.00	38.14
ATOM	797	CA	ASP	103	5.816	69.853	9.958	1.00	31.56
ATOM	798	CB	ASP	103	5.792	71.393	10.006	1.00	27.33
ATOM	799	CG	ASP	103	5.109	72.022	8.784	1.00	32.88
ATOM	800	OD1	ASP	103	5.437	71.646	7.632	1.00	31.80
ATOM	801	OD2	ASP	103	4.264	72.927	8.978	1.00	28.97
ATOM	802	C	ASP	103	6.856	69.295	10.916	1.00	30.11
ATOM	803	O	ASP	103	7.988	69.046	10.509	1.00	32.93
ATOM	804	N	LYS	104	6.450	69.051	12.167	1.00	25.31
ATOM	805	CA	LYS	104	7.339	68.518	13.201	1.00	26.66
ATOM	806	CB	LYS	104	7.344	69.416	14.457	1.00	23.12
ATOM	807	CG	LYS	104	6.086	69.377	15.314	1.00	20.66
ATOM	808	CD	LYS	104	6.067	70.540	16.314	1.00	25.80
ATOM	809	CE	LYS	104	5.701	71.902	15.666	1.00	29.71
ATOM	810	NZ	LYS	104	4.227	72.131	15.399	1.00	12.16
ATOM	811	C	LYS	104	6.995	67.077	13.561	1.00	22.56
ATOM	812	O	LYS	104	5.835	66.751	13.827	1.00	20.89
ATOM	813	N	ILE	105	8.013	66.217	13.546	1.00	18.29
ATOM	814	CA	ILE	105	7.832	64.804	13.848	1.00	12.86
ATOM	815	CB	ILE	105	7.701	63.976	12.559	1.00	12.28
ATOM	816	CG2	ILE	105	6.665	64.595	11.639	1.00	18.67
ATOM	817	CG1	ILE	105	9.013	63.948	11.790	1.00	6.16
ATOM	818	CD1	ILE	105	8.875	63.261	10.441	1.00	2.72
ATOM	819	C	ILE	105	8.921	64.190	14.729	1.00	12.51
ATOM	820	O	ILE	105	10.120	64.320	14.462	1.00	8.60
ATOM	821	N	LEU	106	8.471	63.513	15.782	1.00	10.79
ATOM	822	CA	LEU	106	9.339	62.841	16.741	1.00	3.46
ATOM	823	CB	LEU	106	8.728	62.981	18.135	1.00	2.00
ATOM	824	CG	LEU	106	9.542	62.539	19.345	1.00	2.00
ATOM	825	CD1	LEU	106	11.024	62.915	19.161	1.00	3.98
ATOM	826	CD2	LEU	106	8.953	63.165	20.604	1.00	2.00
ATOM	827	C	LEU	106	9.500	61.357	16.381	1.00	3.72
ATOM	828	O	LEU	106	8.537	60.717	15.984	1.00	9.51
ATOM	829	N	ALA	107	10.726	60.843	16.460	1.00	5.49
ATOM	830	CA	ALA	107	11.035	59.434	16.169	1.00	5.87
ATOM	831	CB	ALA	107	11.545	59.270	14.767	1.00	2.00
ATOM	832	C	ALA	107	12.105	59.027	17.165	1.00	8.29
ATOM	833	O	ALA	107	12.983	59.826	17.485	1.00	12.92
ATOM	834	N	CYS	108	12.063	57.790	17.640	1.00	2.95
ATOM	835	CA	CYS	108	13.026	57.388	18.639	1.00	2.00
ATOM	836	C	CYS	108	13.706	56.067	18.439	1.00	2.00
ATOM	837	O	CYS	108	13.237	55.224	17.691	1.00	7.76
ATOM	838	CB	CYS	108	12.364	57.400	19.995	1.00	2.00
ATOM	839	SG	CYS	108	11.563	58.984	20.380	1.00	15.06
ATOM	840	N	ALA	109	14.824	55.905	19.137	1.00	3.02
ATOM	841	CA	ALA	109	15.640	54.699	19.096	1.00	3.99
ATOM	842	CB	ALA	109	17.018	55.035	18.576	1.00	2.00
ATOM	843	C	ALA	109	15.722	54.198	20.532	1.00	2.77
ATOM	844	O	ALA	109	16.696	54.452	21.237	1.00	2.00
ATOM	845	N	PRO	110	14.709	53.441	20.972	1.00	2.00
ATOM	846	CD	PRO	110	13.463	53.131	20.263	1.00	2.00
ATOM	847	CA	PRO	110	14.663	52.915	22.338	1.00	2.00
ATOM	848	CB	PRO	110	13.283	52.277	22.413	1.00	2.00
ATOM	849	CG	PRO	110	12.496	53.061	21.403	1.00	5.01
ATOM	850	C	PRO	110	15.753	51.962	22.768	1.00	2.00

ATOM	851	O	PRO	110	15.897	51.713	23.958	1.00	2.00
ATOM	852	N	LEU	111	16.502	51.410	21.823	1.00	2.13
ATOM	853	CA	LEU	111	17.582	50.497	22.183	1.00	5.87
ATOM	854	CB	LEU	111	17.468	49.162	21.440	1.00	5.22
ATOM	855	CG	LEU	111	16.316	48.329	22.022	1.00	2.55
ATOM	856	CD1	LEU	111	16.169	47.031	21.297	1.00	2.00
ATOM	857	CD2	LEU	111	16.547	48.083	23.497	1.00	2.00
ATOM	858	C	LEU	111	18.949	51.130	22.015	1.00	9.98
ATOM	859	O	LEU	111	19.971	50.452	21.938	1.00	16.79
ATOM	860	N	TYR	112	18.949	52.457	22.016	1.00	14.88
ATOM	861	CA	TYR	112	20.160	53.251	21.907	1.00	11.97
ATOM	862	CB	TYR	112	19.763	54.702	21.631	1.00	17.90
ATOM	863	CG	TYR	112	20.831	55.724	21.934	1.00	23.24
ATOM	864	CD1	TYR	112	21.940	55.874	21.094	1.00	20.07
ATOM	865	CE1	TYR	112	22.927	56.807	21.378	1.00	17.68
ATOM	866	CD2	TYR	112	20.738	56.537	23.069	1.00	20.00
ATOM	867	CE2	TYR	112	21.724	57.470	23.361	1.00	18.29
ATOM	868	CZ	TYR	112	22.813	57.600	22.509	1.00	15.73
ATOM	869	OH	TYR	112	23.784	58.528	22.783	1.00	22.70
ATOM	870	C	TYR	112	20.942	53.153	23.220	1.00	10.35
ATOM	871	O	TYR	112	20.423	53.510	24.283	1.00	2.00
ATOM	872	N	HIS	113	22.172	52.639	23.143	1.00	11.69
ATOM	873	CA	HIS	113	23.045	52.493	24.320	1.00	17.54
ATOM	874	CB	HIS	113	23.826	51.185	24.261	1.00	24.17
ATOM	875	CG	HIS	113	23.065	49.999	24.757	1.00	23.09
ATOM	876	CD2	HIS	113	22.844	49.550	26.013	1.00	16.10
ATOM	877	ND1	HIS	113	22.459	49.095	23.911	1.00	19.88
ATOM	878	CE1	HIS	113	21.902	48.134	24.627	1.00	17.49
ATOM	879	NE2	HIS	113	22.121	48.384	25.904	1.00	19.03
ATOM	880	C	HIS	113	24.041	53.633	24.468	1.00	16.44
ATOM	881	O	HIS	113	24.537	54.174	23.484	1.00	17.83
ATOM	882	N	TRP	114	24.430	53.909	25.705	1.00	21.01
ATOM	883	CA	TRP	114	25.356	55.000	25.973	1.00	21.68
ATOM	884	CB	TRP	114	24.542	56.298	26.102	1.00	32.03
ATOM	885	CG	TRP	114	25.153	57.421	26.886	1.00	28.87
ATOM	886	CD2	TRP	114	24.861	57.756	28.245	1.00	25.38
ATOM	887	CE2	TRP	114	25.568	58.946	28.538	1.00	24.90
ATOM	888	CE3	TRP	114	24.066	57.171	29.238	1.00	27.61
ATOM	889	CD1	TRP	114	26.006	58.382	26.426	1.00	26.75
ATOM	890	NE1	TRP	114	26.255	59.305	27.414	1.00	28.22
ATOM	891	CZ2	TRP	114	25.504	59.561	29.792	1.00	29.66
ATOM	892	CZ3	TRP	114	23.999	57.779	30.483	1.00	37.70
ATOM	893	CH2	TRP	114	24.718	58.970	30.749	1.00	40.69
ATOM	894	C	TRP	114	26.220	54.751	27.201	1.00	20.71
ATOM	895	O	TRP	114	25.721	54.377	28.259	1.00	24.68
ATOM	896	N	ARG	115	27.526	54.911	27.014	1.00	19.60
ATOM	897	CA	ARG	115	28.540	54.744	28.055	1.00	16.39
ATOM	898	CB	ARG	115	29.917	54.822	27.390	1.00	15.14
ATOM	899	CG	ARG	115	31.040	55.054	28.352	1.00	20.67
ATOM	900	CD	ARG	115	32.199	55.832	27.754	1.00	11.14
ATOM	901	NE	ARG	115	33.003	56.354	28.855	1.00	16.78
ATOM	902	CZ	ARG	115	34.132	55.811	29.292	1.00	18.48
ATOM	903	NH1	ARG	115	34.616	54.731	28.696	1.00	19.79
ATOM	904	NH2	ARG	115	34.710	56.271	30.403	1.00	16.00
ATOM	905	C	ARG	115	28.412	55.907	29.037	1.00	19.78
ATOM	906	O	ARG	115	28.452	57.057	28.616	1.00	34.86
ATOM	907	N	THR	116	28.288	55.647	30.332	1.00	14.42

ATOM	908	CA	THR	116	28.169	56.760	31.279	1.00	20.61
ATOM	909	CB	THR	116	28.052	56.261	32.719	1.00	25.17
ATOM	910	OG1	THR	116	29.279	55.627	33.117	1.00	31.98
ATOM	911	CG2	THR	116	26.919	55.267	32.829	1.00	32.24
ATOM	912	C	THR	116	29.408	57.646	31.184	1.00	29.00
ATOM	913	O	THR	116	30.447	57.204	30.694	1.00	36.10
ATOM	914	N	GLU	117	29.324	58.890	31.641	1.00	30.41
ATOM	915	CA	GLU	117	30.501	59.744	31.569	1.00	32.80
ATOM	916	CB	GLU	117	30.123	61.205	31.410	1.00	32.56
ATOM	917	CG	GLU	117	30.102	61.610	29.954	1.00	31.62
ATOM	918	CD	GLU	117	29.877	63.078	29.758	1.00	29.98
ATOM	919	OE1	GLU	117	30.566	63.669	28.900	1.00	29.38
ATOM	920	OE2	GLU	117	29.004	63.634	30.461	1.00	34.27
ATOM	921	C	GLU	117	31.494	59.534	32.701	1.00	36.83
ATOM	922	O	GLU	117	32.361	60.374	32.963	1.00	38.56
ATOM	923	N	MET	118	31.360	58.388	33.358	1.00	39.84
ATOM	924	CA	MET	118	32.242	58.004	34.442	1.00	45.51
ATOM	925	CB	MET	118	31.446	57.701	35.713	1.00	47.04
ATOM	926	CG	MET	118	30.700	58.897	36.274	1.00	50.17
ATOM	927	SD	MET	118	29.340	59.414	35.214	1.00	63.03
ATOM	928	CE	MET	118	28.067	59.776	36.444	1.00	54.36
ATOM	929	C	MET	118	32.991	56.768	33.965	1.00	46.59
ATOM	930	O	MET	118	33.955	56.884	33.200	1.00	50.07
ATOM	931	N	LYS	119	32.509	55.589	34.357	1.00	46.13
ATOM	932	CA	LYS	119	33.140	54.328	33.970	1.00	44.77
ATOM	933	CB	LYS	119	32.840	53.234	34.993	1.00	50.86
ATOM	934	CG	LYS	119	33.662	53.315	36.278	1.00	58.92
ATOM	935	CD	LYS	119	33.263	52.227	37.288	1.00	60.57
ATOM	936	CE	LYS	119	31.933	52.528	38.003	1.00	60.90
ATOM	937	NZ	LYS	119	30.723	52.572	37.117	1.00	56.36
ATOM	938	C	LYS	119	32.705	53.865	32.590	1.00	40.18
ATOM	939	O	LYS	119	31.711	54.362	32.053	1.00	35.06
ATOM	940	N	GLN	120	33.472	52.930	32.020	1.00	36.89
ATOM	941	CA	GLN	120	33.184	52.367	30.698	1.00	35.11
ATOM	942	CB	GLN	120	34.311	51.432	30.244	1.00	38.35
ATOM	943	CG	GLN	120	34.634	51.452	28.737	1.00	46.85
ATOM	944	CD	GLN	120	33.422	51.256	27.826	1.00	57.29
ATOM	945	OE1	GLN	120	33.312	51.906	26.780	1.00	63.69
ATOM	946	NE2	GLN	120	32.521	50.350	28.205	1.00	54.24
ATOM	947	C	GLN	120	31.925	51.553	30.876	1.00	31.63
ATOM	948	O	GLN	120	31.974	50.458	31.420	1.00	33.55
ATOM	949	N	GLU	121	30.793	52.095	30.444	1.00	28.87
ATOM	950	CA	GLU	121	29.532	51.398	30.597	1.00	27.27
ATOM	951	CB	GLU	121	28.549	52.280	31.360	1.00	33.00
ATOM	952	CG	GLU	121	27.732	51.524	32.382	1.00	41.72
ATOM	953	CD	GLU	121	28.528	51.184	33.632	1.00	48.88
ATOM	954	OE1	GLU	121	28.031	51.466	34.745	1.00	56.12
ATOM	955	OE2	GLU	121	29.645	50.639	33.510	1.00	46.61
ATOM	956	C	GLU	121	28.954	51.010	29.252	1.00	24.79
ATOM	957	O	GLU	121	29.692	50.590	28.362	1.00	27.10
ATOM	958	N	ARG	122	27.630	51.136	29.137	1.00	19.33
ATOM	959	CA	ARG	122	26.877	50.837	27.926	1.00	9.10
ATOM	960	CB	ARG	122	27.390	49.551	27.294	1.00	2.00
ATOM	961	CG	ARG	122	26.848	49.347	25.933	1.00	3.30
ATOM	962	CD	ARG	122	27.859	48.765	25.011	1.00	2.00
ATOM	963	NE	ARG	122	27.260	48.589	23.695	1.00	2.55
ATOM	964	CZ	ARG	122	27.935	48.191	22.624	1.00	15.32

ATOM	965	NH1	ARG	122	29.241	47.938	22.718	1.00	21.51
ATOM	966	NH2	ARG	122	27.296	47.998	21.478	1.00	15.34
ATOM	967	C	ARG	122	25.396	50.693	28.294	1.00	9.27
ATOM	968	O	ARG	122	24.815	49.621	28.157	1.00	8.68
ATOM	969	N	GLU	123	24.775	51.795	28.709	1.00	2.45
ATOM	970	CA	GLU	123	23.384	51.776	29.148	1.00	9.07
ATOM	971	CB	GLU	123	23.280	52.578	30.443	1.00	8.87
ATOM	972	CG	GLU	123	24.362	52.158	31.467	1.00	14.86
ATOM	973	CD	GLU	123	24.373	52.964	32.780	1.00	21.71
ATOM	974	OE1	GLU	123	25.042	52.497	33.731	1.00	11.99
ATOM	975	OE2	GLU	123	23.750	54.051	32.870	1.00	20.78
ATOM	976	C	GLU	123	22.303	52.188	28.138	1.00	11.28
ATOM	977	O	GLU	123	22.436	53.192	27.457	1.00	11.63
ATOM	978	N	PRO	124	21.216	51.393	28.033	1.00	14.92
ATOM	979	CD	PRO	124	21.055	50.187	28.853	1.00	17.00
ATOM	980	CA	PRO	124	20.044	51.549	27.156	1.00	11.07
ATOM	981	CB	PRO	124	19.233	50.282	27.422	1.00	3.41
ATOM	982	CG	PRO	124	20.202	49.336	27.976	1.00	10.70
ATOM	983	C	PRO	124	19.219	52.736	27.588	1.00	17.89
ATOM	984	O	PRO	124	18.053	52.579	27.972	1.00	17.39
ATOM	985	N	VAL	125	19.838	53.913	27.570	1.00	17.05
ATOM	986	CA	VAL	125	19.174	55.142	27.969	1.00	9.90
ATOM	987	CB	VAL	125	20.220	56.225	28.273	1.00	5.37
ATOM	988	CG1	VAL	125	20.162	57.358	27.278	1.00	6.71
ATOM	989	CG2	VAL	125	20.032	56.720	29.668	1.00	13.24
ATOM	990	C	VAL	125	18.144	55.596	26.932	1.00	10.06
ATOM	991	O	VAL	125	17.143	56.231	27.275	1.00	7.69
ATOM	992	N	GLY	126	18.390	55.237	25.672	1.00	8.87
ATOM	993	CA	GLY	126	17.494	55.588	24.585	1.00	12.68
ATOM	994	C	GLY	126	17.437	57.056	24.216	1.00	12.91
ATOM	995	O	GLY	126	17.436	57.924	25.077	1.00	16.76
ATOM	996	N	THR	127	17.323	57.335	22.928	1.00	9.68
ATOM	997	CA	THR	127	17.250	58.704	22.470	1.00	9.89
ATOM	998	CB	THR	127	18.547	59.117	21.856	1.00	5.72
ATOM	999	OG1	THR	127	18.487	60.516	21.554	1.00	14.09
ATOM	1000	CG2	THR	127	18.772	58.337	20.574	1.00	4.07
ATOM	1001	C	THR	127	16.165	58.923	21.418	1.00	13.46
ATOM	1002	O	THR	127	15.571	57.969	20.924	1.00	19.77
ATOM	1003	N	CYS	128	15.955	60.189	21.055	1.00	12.18
ATOM	1004	CA	CYS	128	14.973	60.583	20.053	1.00	8.92
ATOM	1005	C	CYS	128	15.524	61.706	19.204	1.00	10.19
ATOM	1006	O	CYS	128	16.536	62.309	19.541	1.00	8.33
ATOM	1007	CB	CYS	128	13.699	61.094	20.702	1.00	2.00
ATOM	1008	SG	CYS	128	12.830	59.876	21.706	1.00	20.49
ATOM	1009	N	PHE	129	14.814	61.994	18.120	1.00	11.34
ATOM	1010	CA	PHE	129	15.172	63.048	17.187	1.00	7.54
ATOM	1011	CB	PHE	129	15.922	62.491	15.990	1.00	2.11
ATOM	1012	CG	PHE	129	17.324	62.087	16.301	1.00	9.67
ATOM	1013	CD1	PHE	129	17.620	60.796	16.684	1.00	8.29
ATOM	1014	CD2	PHE	129	18.363	63.003	16.203	1.00	17.81
ATOM	1015	CE1	PHE	129	18.931	60.423	16.965	1.00	6.58
ATOM	1016	CE2	PHE	129	19.676	62.634	16.483	1.00	3.56
ATOM	1017	CZ	PHE	129	19.955	61.344	16.863	1.00	2.00
ATOM	1018	C	PHE	129	13.920	63.755	16.713	1.00	16.59
ATOM	1019	O	PHE	129	13.021	63.148	16.120	1.00	16.16
ATOM	1020	N	LEU	130	13.868	65.049	16.994	1.00	25.82
ATOM	1021	CA	LEU	130	12.738	65.885	16.621	1.00	25.22

ATOM	1022	CB	LEU	130	12.347	66.770	17.803	1.00	18.28
ATOM	1023	CG	LEU	130	11.072	67.600	17.687	1.00	15.34
ATOM	1024	CD1	LEU	130	9.903	66.758	17.191	1.00	16.96
ATOM	1025	CD2	LEU	130	10.772	68.179	19.037	1.00	13.29
ATOM	1026	C	LEU	130	13.100	66.741	15.418	1.00	22.55
ATOM	1027	O	LEU	130	14.006	67.568	15.490	1.00	29.03
ATOM	1028	N	GLN	131	12.395	66.528	14.313	1.00	19.23
ATOM	1029	CA	GLN	131	12.640	67.275	13.090	1.00	15.83
ATOM	1030	CB	GLN	131	12.847	66.297	11.927	1.00	9.44
ATOM	1031	CG	GLN	131	13.244	66.943	10.610	1.00	13.76
ATOM	1032	CD	GLN	131	13.833	65.948	9.618	1.00	20.91
ATOM	1033	OE1	GLN	131	14.765	65.205	9.938	1.00	17.98
ATOM	1034	NE2	GLN	131	13.299	65.940	8.402	1.00	27.59
ATOM	1035	C	GLN	131	11.486	68.241	12.802	1.00	17.39
ATOM	1036	O	GLN	131	10.395	68.095	13.352	1.00	12.71
ATOM	1037	N	ASP	132	11.775	69.274	12.011	1.00	24.70
ATOM	1038	CA	ASP	132	10.795	70.284	11.591	1.00	28.12
ATOM	1039	CB	ASP	132	10.718	71.459	12.584	1.00	33.67
ATOM	1040	CG	ASP	132	9.494	72.368	12.347	1.00	39.56
ATOM	1041	OD1	ASP	132	9.189	72.714	11.178	1.00	35.76
ATOM	1042	OD2	ASP	132	8.833	72.741	13.346	1.00	42.30
ATOM	1043	C	ASP	132	11.229	70.787	10.215	1.00	29.32
ATOM	1044	O	ASP	132	11.667	71.923	10.069	1.00	24.31
ATOM	1045	N	GLY	133	11.150	69.901	9.224	1.00	40.18
ATOM	1046	CA	GLY	133	11.519	70.232	7.854	1.00	42.84
ATOM	1047	C	GLY	133	13.008	70.348	7.604	1.00	45.67
ATOM	1048	O	GLY	133	13.589	69.581	6.834	1.00	41.41
ATOM	1049	N	THR	134	13.616	71.331	8.256	1.00	51.60
ATOM	1050	CA	THR	134	15.040	71.602	8.129	1.00	57.50
ATOM	1051	CB	THR	134	15.281	73.056	7.620	1.00	64.65
ATOM	1052	OG1	THR	134	14.516	73.984	8.408	1.00	69.59
ATOM	1053	CG2	THR	134	14.868	73.190	6.159	1.00	63.12
ATOM	1054	C	THR	134	15.732	71.398	9.479	1.00	55.90
ATOM	1055	O	THR	134	16.599	70.535	9.619	1.00	58.42
ATOM	1056	N	LYS	135	15.323	72.185	10.470	1.00	46.22
ATOM	1057	CA	LYS	135	15.881	72.110	11.816	1.00	43.14
ATOM	1058	CB	LYS	135	15.277	73.239	12.670	1.00	42.36
ATOM	1059	CG	LYS	135	15.689	73.289	14.142	1.00	36.17
ATOM	1060	CD	LYS	135	17.185	73.531	14.345	1.00	45.19
ATOM	1061	CE	LYS	135	17.505	73.724	15.832	1.00	44.92
ATOM	1062	NZ	LYS	135	18.964	73.691	16.155	1.00	47.52
ATOM	1063	C	LYS	135	15.620	70.726	12.441	1.00	39.69
ATOM	1064	O	LYS	135	14.541	70.157	12.293	1.00	40.95
ATOM	1065	N	THR	136	16.629	70.179	13.112	1.00	35.85
ATOM	1066	CA	THR	136	16.519	68.875	13.752	1.00	27.53
ATOM	1067	CB	THR	136	16.991	67.748	12.806	1.00	31.06
ATOM	1068	OG1	THR	136	16.301	67.857	11.557	1.00	21.15
ATOM	1069	CG2	THR	136	16.729	66.367	13.423	1.00	29.26
ATOM	1070	C	THR	136	17.342	68.824	15.041	1.00	23.45
ATOM	1071	O	THR	136	18.542	69.102	15.050	1.00	24.01
ATOM	1072	N	VAL	137	16.680	68.467	16.131	1.00	18.80
ATOM	1073	CA	VAL	137	17.337	68.377	17.421	1.00	13.26
ATOM	1074	CB	VAL	137	16.660	69.309	18.422	1.00	4.83
ATOM	1075	CG1	VAL	137	16.459	70.654	17.793	1.00	2.00
ATOM	1076	CG2	VAL	137	15.338	68.726	18.879	1.00	8.96
ATOM	1077	C	VAL	137	17.286	66.934	17.934	1.00	11.58
ATOM	1078	O	VAL	137	16.730	66.064	17.269	1.00	17.93

ATOM	1079	N	GLU	138	17.910	66.682	19.084	1.00	2.00
ATOM	1080	CA	GLU	138	17.913	65.368	19.688	1.00	2.00
ATOM	1081	CB	GLU	138	19.310	64.757	19.684	1.00	2.00
ATOM	1082	CG	GLU	138	19.413	63.451	20.497	1.00	4.31
ATOM	1083	CD	GLU	138	20.719	62.679	20.269	1.00	16.75
ATOM	1084	OE1	GLU	138	21.332	62.833	19.192	1.00	31.01
ATOM	1085	OE2	GLU	138	21.132	61.895	21.150	1.00	12.72
ATOM	1086	C	GLU	138	17.389	65.444	21.115	1.00	12.97
ATOM	1087	O	GLU	138	17.957	66.148	21.956	1.00	13.88
ATOM	1088	N	TYR	139	16.282	64.740	21.368	1.00	12.45
ATOM	1089	CA	TYR	139	15.658	64.685	22.689	1.00	6.19
ATOM	1090	CB	TYR	139	14.158	64.840	22.542	1.00	2.00
ATOM	1091	CG	TYR	139	13.396	64.891	23.840	1.00	2.00
ATOM	1092	CD1	TYR	139	13.750	65.778	24.844	1.00	6.06
ATOM	1093	CE1	TYR	139	12.993	65.892	26.005	1.00	6.19
ATOM	1094	CD2	TYR	139	12.261	64.107	24.030	1.00	5.56
ATOM	1095	CE2	TYR	139	11.497	64.215	25.184	1.00	6.81
ATOM	1096	CZ	TYR	139	11.868	65.117	26.161	1.00	9.07
ATOM	1097	OH	TYR	139	11.092	65.265	27.277	1.00	14.72
ATOM	1098	C	TYR	139	15.979	63.326	23.292	1.00	8.29
ATOM	1099	O	TYR	139	15.579	62.306	22.745	1.00	17.96
ATOM	1100	N	ALA	140	16.740	63.319	24.384	1.00	3.05
ATOM	1101	CA	ALA	140	17.155	62.093	25.078	1.00	2.00
ATOM	1102	CB	ALA	140	18.573	61.703	24.653	1.00	2.00
ATOM	1103	C	ALA	140	17.118	62.376	26.576	1.00	7.35
ATOM	1104	O	ALA	140	18.129	62.270	27.271	1.00	2.00
ATOM	1105	N	PRO	141	15.924	62.687	27.105	1.00	8.62
ATOM	1106	CD	PRO	141	14.632	62.543	26.414	1.00	6.81
ATOM	1107	CA	PRO	141	15.712	63.002	28.519	1.00	9.50
ATOM	1108	CB	PRO	141	14.194	63.144	28.601	1.00	3.47
ATOM	1109	CG	PRO	141	13.716	62.218	27.553	1.00	7.84
ATOM	1110	C	PRO	141	16.244	61.999	29.528	1.00	13.94
ATOM	1111	O	PRO	141	16.378	62.316	30.704	1.00	22.76
ATOM	1112	N	CYS	142	16.536	60.784	29.094	1.00	22.21
ATOM	1113	CA	CYS	142	17.045	59.800	30.041	1.00	25.50
ATOM	1114	C	CYS	142	18.557	59.738	30.109	1.00	22.52
ATOM	1115	O	CYS	142	19.126	59.153	31.030	1.00	24.97
ATOM	1116	CB	CYS	142	16.418	58.429	29.802	1.00	26.12
ATOM	1117	SG	CYS	142	14.850	58.244	30.718	1.00	27.62
ATOM	1118	N	ARG	143	19.208	60.356	29.131	1.00	14.96
ATOM	1119	CA	ARG	143	20.653	60.412	29.110	1.00	11.18
ATOM	1120	CB	ARG	143	21.137	60.710	27.692	1.00	4.40
ATOM	1121	CG	ARG	143	22.639	60.612	27.527	1.00	9.50
ATOM	1122	CD	ARG	143	23.069	60.612	26.069	1.00	3.51
ATOM	1123	NE	ARG	143	22.631	61.818	25.381	1.00	9.16
ATOM	1124	CZ	ARG	143	22.819	62.051	24.087	1.00	12.88
ATOM	1125	NH1	ARG	143	23.444	61.159	23.329	1.00	14.84
ATOM	1126	NH2	ARG	143	22.364	63.170	23.546	1.00	19.08
ATOM	1127	C	ARG	143	21.011	61.549	30.067	1.00	19.25
ATOM	1128	O	ARG	143	21.059	62.711	29.665	1.00	23.17
ATOM	1129	N	SER	144	21.168	61.224	31.348	1.00	22.71
ATOM	1130	CA	SER	144	21.498	62.240	32.351	1.00	30.14
ATOM	1131	CB	SER	144	20.259	62.626	33.191	1.00	30.82
ATOM	1132	OG	SER	144	19.964	61.688	34.223	1.00	18.58
ATOM	1133	C	SER	144	22.653	61.858	33.272	1.00	33.69
ATOM	1134	O	SER	144	23.184	60.747	33.211	1.00	33.25
ATOM	1135	N	GLN	145	23.037	62.802	34.123	1.00	34.84

ATOM	1136	CA	GLN	145	24.119	62.593	35.075	1.00	39.38
ATOM	1137	CB	GLN	145	24.407	63.906	35.813	1.00	47.90
ATOM	1138	CG	GLN	145	25.791	64.505	35.551	1.00	49.36
ATOM	1139	CD	GLN	145	26.039	64.844	34.092	1.00	50.33
ATOM	1140	OE1	GLN	145	26.685	64.081	33.360	1.00	47.89
ATOM	1141	NE2	GLN	145	25.546	66.003	33.669	1.00	51.14
ATOM	1142	C	GLN	145	23.729	61.488	36.059	1.00	33.93
ATOM	1143	O	GLN	145	24.583	60.839	36.661	1.00	29.55
ATOM	1144	N	ASP	146	22.420	61.324	36.232	1.00	34.17
ATOM	1145	CA	ASP	146	21.830	60.309	37.099	1.00	38.26
ATOM	1146	CB	ASP	146	20.408	60.753	37.453	1.00	43.78
ATOM	1147	CG	ASP	146	19.611	59.679	38.154	1.00	42.18
ATOM	1148	OD1	ASP	146	20.217	58.738	38.715	1.00	46.12
ATOM	1149	OD2	ASP	146	18.368	59.791	38.144	1.00	38.83
ATOM	1150	C	ASP	146	21.825	58.994	36.293	1.00	36.38
ATOM	1151	O	ASP	146	21.046	58.828	35.344	1.00	37.43
ATOM	1152	N	ILE	147	22.641	58.034	36.715	1.00	27.45
ATOM	1153	CA	ILE	147	22.763	56.803	35.950	1.00	17.92
ATOM	1154	CB	ILE	147	24.136	56.732	35.298	1.00	8.52
ATOM	1155	CG2	ILE	147	24.293	57.853	34.287	1.00	3.79
ATOM	1156	CG1	ILE	147	25.206	56.739	36.398	1.00	3.09
ATOM	1157	CD1	ILE	147	26.593	56.424	35.921	1.00	2.00
ATOM	1158	C	ILE	147	22.571	55.455	36.616	1.00	25.40
ATOM	1159	O	ILE	147	22.080	55.337	37.748	1.00	25.13
ATOM	1160	N	ASP	148	23.030	54.444	35.870	1.00	21.65
ATOM	1161	CA	ASP	148	22.979	53.046	36.250	1.00	24.45
ATOM	1162	CB	ASP	148	23.740	52.808	37.561	1.00	29.80
ATOM	1163	CG	ASP	148	25.231	53.092	37.439	1.00	23.65
ATOM	1164	OD1	ASP	148	25.791	53.684	38.378	1.00	24.41
ATOM	1165	OD2	ASP	148	25.844	52.717	36.420	1.00	16.03
ATOM	1166	C	ASP	148	21.548	52.556	36.374	1.00	24.28
ATOM	1167	O	ASP	148	20.601	53.349	36.346	1.00	23.31
ATOM	1168	N	ALA	149	21.395	51.243	36.504	1.00	23.84
ATOM	1169	CA	ALA	149	20.080	50.637	36.645	1.00	25.17
ATOM	1170	CB	ALA	149	20.228	49.141	36.822	1.00	26.83
ATOM	1171	C	ALA	149	19.352	51.249	37.844	1.00	27.64
ATOM	1172	O	ALA	149	18.133	51.197	37.936	1.00	25.39
ATOM	1173	N	ASP	150	20.125	51.814	38.765	1.00	29.44
ATOM	1174	CA	ASP	150	19.608	52.462	39.964	1.00	32.17
ATOM	1175	CB	ASP	150	20.786	52.781	40.900	1.00	44.52
ATOM	1176	CG	ASP	150	20.541	54.001	41.776	1.00	51.45
ATOM	1177	OD1	ASP	150	21.116	55.079	41.470	1.00	57.66
ATOM	1178	OD2	ASP	150	19.783	53.873	42.765	1.00	51.56
ATOM	1179	C	ASP	150	18.854	53.733	39.574	1.00	28.73
ATOM	1180	O	ASP	150	17.810	54.049	40.142	1.00	25.72
ATOM	1181	N	GLY	151	19.406	54.466	38.611	1.00	26.93
ATOM	1182	CA	GLY	151	18.769	55.682	38.149	1.00	20.43
ATOM	1183	C	GLY	151	18.148	55.481	36.786	1.00	15.92
ATOM	1184	O	GLY	151	17.507	54.465	36.539	1.00	21.45
ATOM	1185	N	GLN	152	18.382	56.423	35.884	1.00	14.38
ATOM	1186	CA	GLN	152	17.819	56.349	34.539	1.00	13.21
ATOM	1187	CB	GLN	152	17.531	57.760	34.011	1.00	20.44
ATOM	1188	CG	GLN	152	16.573	58.603	34.860	1.00	23.32
ATOM	1189	CD	GLN	152	16.355	59.997	34.271	1.00	31.89
ATOM	1190	OE1	GLN	152	15.263	60.323	33.790	1.00	29.23
ATOM	1191	NE2	GLN	152	17.402	60.819	34.296	1.00	31.44
ATOM	1192	C	GLN	152	18.725	55.601	33.557	1.00	7.90

ATOM	1193	O	GLN	152	18.667	55.809	32.348	1.00	2.00
ATOM	1194	N	GLY	153	19.525	54.683	34.070	1.00	9.71
ATOM	1195	CA	GLY	153	20.432	53.962	33.199	1.00	14.66
ATOM	1196	C	GLY	153	19.836	53.170	32.049	1.00	15.89
ATOM	1197	O	GLY	153	20.302	53.268	30.906	1.00	13.79
ATOM	1198	N	PHE	154	18.816	52.375	32.356	1.00	15.30
ATOM	1199	CA	PHE	154	18.180	51.519	31.358	1.00	11.68
ATOM	1200	CB	PHE	154	18.165	50.092	31.882	1.00	6.77
ATOM	1201	CG	PHE	154	19.523	49.572	32.177	1.00	2.00
ATOM	1202	CD1	PHE	154	20.268	50.111	33.209	1.00	2.00
ATOM	1203	CD2	PHE	154	20.098	48.614	31.370	1.00	2.00
ATOM	1204	CE1	PHE	154	21.561	49.714	33.421	1.00	2.00
ATOM	1205	CE2	PHE	154	21.397	48.208	31.576	1.00	3.55
ATOM	1206	CZ	PHE	154	22.129	48.758	32.600	1.00	2.00
ATOM	1207	C	PHE	154	16.781	51.973	31.019	1.00	13.67
ATOM	1208	O	PHE	154	15.941	51.185	30.577	1.00	19.16
ATOM	1209	N	CYS	155	16.571	53.273	31.161	1.00	11.72
ATOM	1210	CA	CYS	155	15.290	53.883	30.922	1.00	7.06
ATOM	1211	C	CYS	155	14.628	53.604	29.586	1.00	5.88
ATOM	1212	O	CYS	155	13.413	53.419	29.527	1.00	5.01
ATOM	1213	CB	CYS	155	15.410	55.375	31.154	1.00	15.46
ATOM	1214	SG	CYS	155	14.242	56.388	30.206	1.00	31.50
ATOM	1215	N	GLN	156	15.415	53.544	28.519	1.00	2.00
ATOM	1216	CA	GLN	156	14.850	53.311	27.185	1.00	5.74
ATOM	1217	CB	GLN	156	14.424	51.856	26.992	1.00	2.00
ATOM	1218	CG	GLN	156	15.565	50.876	26.938	1.00	7.36
ATOM	1219	CD	GLN	156	15.100	49.441	26.819	1.00	5.80
ATOM	1220	OE1	GLN	156	14.401	49.076	25.868	1.00	2.00
ATOM	1221	NE2	GLN	156	15.493	48.612	27.784	1.00	5.33
ATOM	1222	C	GLN	156	13.651	54.227	26.934	1.00	6.55
ATOM	1223	O	GLN	156	12.569	53.766	26.582	1.00	8.22
ATOM	1224	N	GLY	157	13.824	55.515	27.207	1.00	2.26
ATOM	1225	CA	GLY	157	12.747	56.447	26.959	1.00	2.00
ATOM	1226	C	GLY	157	12.558	56.428	25.461	1.00	2.00
ATOM	1227	O	GLY	157	13.516	56.191	24.736	1.00	7.81
ATOM	1228	N	GLY	158	11.343	56.657	24.987	1.00	2.00
ATOM	1229	CA	GLY	158	11.109	56.630	23.556	1.00	2.00
ATOM	1230	C	GLY	158	10.376	55.361	23.184	1.00	7.73
ATOM	1231	O	GLY	158	9.837	55.253	22.085	1.00	11.71
ATOM	1232	N	PHE	159	10.373	54.397	24.108	1.00	8.23
ATOM	1233	CA	PHE	159	9.680	53.114	23.939	1.00	4.07
ATOM	1234	CB	PHE	159	9.636	52.380	25.277	1.00	10.92
ATOM	1235	CG	PHE	159	9.303	50.935	25.152	1.00	9.22
ATOM	1236	CD1	PHE	159	10.298	50.007	24.866	1.00	8.22
ATOM	1237	CD2	PHE	159	7.986	50.507	25.258	1.00	9.75
ATOM	1238	CE1	PHE	159	9.985	48.681	24.672	1.00	13.45
ATOM	1239	CE2	PHE	159	7.656	49.186	25.066	1.00	2.00
ATOM	1240	CZ	PHE	159	8.654	48.266	24.772	1.00	11.54
ATOM	1241	C	PHE	159	8.253	53.394	23.464	1.00	2.75
ATOM	1242	O	PHE	159	7.718	52.688	22.619	1.00	5.85
ATOM	1243	N	SER	160	7.648	54.427	24.037	1.00	2.32
ATOM	1244	CA	SER	160	6.318	54.871	23.654	1.00	7.66
ATOM	1245	CB	SER	160	5.257	54.352	24.626	1.00	12.91
ATOM	1246	OG	SER	160	5.273	55.061	25.852	1.00	2.18
ATOM	1247	C	SER	160	6.379	56.394	23.709	1.00	12.17
ATOM	1248	O	SER	160	7.047	56.946	24.584	1.00	15.18
ATOM	1249	N	ILE	161	5.724	57.066	22.763	1.00	15.18

ATOM	1250	CA	ILE	161	5.712	58.532	22.719	1.00	12.48
ATOM	1251	CB	ILE	161	6.856	59.080	21.828	1.00	14.17
ATOM	1252	CG2	ILE	161	8.217	58.943	22.524	1.00	18.78
ATOM	1253	CG1	ILE	161	6.859	58.368	20.474	1.00	14.83
ATOM	1254	CD1	ILE	161	8.016	58.761	19.555	1.00	12.75
ATOM	1255	C	ILE	161	4.376	59.092	22.211	1.00	14.24
ATOM	1256	O	ILE	161	3.624	58.404	21.518	1.00	14.59
ATOM	1257	N	ASP	162	4.091	60.349	22.555	1.00	23.05
ATOM	1258	CA	ASP	162	2.850	61.018	22.137	1.00	21.05
ATOM	1259	CB	ASP	162	1.663	60.438	22.919	1.00	23.32
ATOM	1260	CG	ASP	162	0.500	60.056	22.030	1.00	29.16
ATOM	1261	OD1	ASP	162	-0.291	59.182	22.446	1.00	39.11
ATOM	1262	OD2	ASP	162	0.365	60.625	20.923	1.00	32.05
ATOM	1263	C	ASP	162	2.896	62.559	22.321	1.00	15.47
ATOM	1264	O	ASP	162	3.606	63.058	23.199	1.00	10.00
ATOM	1265	N	PHE	163	2.156	63.290	21.478	1.00	9.74
ATOM	1266	CA	PHE	163	2.076	64.761	21.535	1.00	9.58
ATOM	1267	CB	PHE	163	2.055	65.387	20.132	1.00	5.07
ATOM	1268	CG	PHE	163	3.379	65.395	19.415	1.00	8.45
ATOM	1269	CD1	PHE	163	3.541	64.680	18.224	1.00	5.38
ATOM	1270	CD2	PHE	163	4.437	66.172	19.878	1.00	8.50
ATOM	1271	CE1	PHE	163	4.728	64.739	17.501	1.00	2.43
ATOM	1272	CE2	PHE	163	5.635	66.240	19.160	1.00	10.32
ATOM	1273	CZ	PHE	163	5.776	65.520	17.965	1.00	11.29
ATOM	1274	C	PHE	163	0.765	65.203	22.177	1.00	13.66
ATOM	1275	O	PHE	163	-0.296	64.680	21.820	1.00	18.31
ATOM	1276	N	THR	164	0.817	66.176	23.090	1.00	15.13
ATOM	1277	CA	THR	164	-0.424	66.687	23.668	1.00	16.76
ATOM	1278	CB	THR	164	-0.271	67.343	25.067	1.00	12.96
ATOM	1279	OG1	THR	164	0.475	68.556	24.967	1.00	15.54
ATOM	1280	CG2	THR	164	0.411	66.408	26.026	1.00	19.64
ATOM	1281	C	THR	164	-0.897	67.744	22.677	1.00	20.23
ATOM	1282	O	THR	164	-0.092	68.265	21.882	1.00	13.08
ATOM	1283	N	LYS	165	-2.198	68.038	22.715	1.00	23.73
ATOM	1284	CA	LYS	165	-2.824	69.017	21.826	1.00	19.56
ATOM	1285	CB	LYS	165	-4.246	69.288	22.297	1.00	24.48
ATOM	1286	CG	LYS	165	-5.038	70.204	21.394	1.00	34.78
ATOM	1287	CD	LYS	165	-6.383	70.515	22.024	1.00	42.75
ATOM	1288	CE	LYS	165	-7.310	71.215	21.051	1.00	49.54
ATOM	1289	NZ	LYS	165	-8.689	71.308	21.604	1.00	54.94
ATOM	1290	C	LYS	165	-2.048	70.325	21.799	1.00	16.83
ATOM	1291	O	LYS	165	-1.773	70.871	20.739	1.00	16.45
ATOM	1292	N	ALA	166	-1.689	70.802	22.988	1.00	14.90
ATOM	1293	CA	ALA	166	-0.948	72.037	23.160	1.00	3.84
ATOM	1294	CB	ALA	166	-1.295	72.640	24.493	1.00	12.36
ATOM	1295	C	ALA	166	0.551	71.815	23.074	1.00	7.29
ATOM	1296	O	ALA	166	1.275	72.082	24.033	1.00	8.40
ATOM	1297	N	ASP	167	0.995	71.257	21.950	1.00	9.68
ATOM	1298	CA	ASP	167	2.407	70.992	21.675	1.00	15.09
ATOM	1299	CB	ASP	167	2.990	72.142	20.866	1.00	32.41
ATOM	1300	CG	ASP	167	3.698	71.674	19.611	1.00	52.40
ATOM	1301	OD1	ASP	167	3.423	70.542	19.153	1.00	56.11
ATOM	1302	OD2	ASP	167	4.524	72.451	19.073	1.00	66.25
ATOM	1303	C	ASP	167	3.315	70.723	22.870	1.00	18.98
ATOM	1304	O	ASP	167	4.054	71.599	23.317	1.00	23.45
ATOM	1305	N	ARG	168	3.253	69.503	23.379	1.00	17.38
ATOM	1306	CA	ARG	168	4.071	69.074	24.506	1.00	15.80

ATOM	1307	CB	ARG	168	3.327	69.338	25.820	1.00	11.94
ATOM	1308	CG	ARG	168	4.092	68.955	27.070	1.00	9.77
ATOM	1309	CD	ARG	168	3.229	69.128	28.321	1.00	9.95
ATOM	1310	NE	ARG	168	3.678	70.223	29.184	1.00	10.67
ATOM	1311	CZ	ARG	168	4.884	70.304	29.749	1.00	11.57
ATOM	1312	NH1	ARG	168	5.791	69.353	29.555	1.00	9.28
ATOM	1313	NH2	ARG	168	5.185	71.345	30.514	1.00	17.55
ATOM	1314	C	ARG	168	4.252	67.577	24.247	1.00	13.89
ATOM	1315	O	ARG	168	3.454	66.998	23.515	1.00	16.09
ATOM	1316	N	VAL	169	5.305	66.954	24.767	1.00	7.66
ATOM	1317	CA	VAL	169	5.469	65.533	24.486	1.00	4.87
ATOM	1318	CB	VAL	169	6.723	65.208	23.585	1.00	2.00
ATOM	1319	CG1	VAL	169	7.071	66.379	22.692	1.00	2.00
ATOM	1320	CG2	VAL	169	7.908	64.755	24.411	1.00	2.00
ATOM	1321	C	VAL	169	5.475	64.617	25.689	1.00	6.42
ATOM	1322	O	VAL	169	6.143	64.889	26.689	1.00	2.10
ATOM	1323	N	LEU	170	4.691	63.542	25.582	1.00	10.81
ATOM	1324	CA	LEU	170	4.615	62.513	26.613	1.00	7.98
ATOM	1325	CB	LEU	170	3.206	61.951	26.750	1.00	2.00
ATOM	1326	CG	LEU	170	2.780	61.523	28.155	1.00	2.00
ATOM	1327	CD1	LEU	170	1.738	60.425	28.066	1.00	2.00
ATOM	1328	CD2	LEU	170	3.962	61.074	28.978	1.00	6.51
ATOM	1329	C	LEU	170	5.521	61.416	26.078	1.00	13.43
ATOM	1330	O	LEU	170	5.336	60.926	24.957	1.00	14.98
ATOM	1331	N	LEU	171	6.538	61.078	26.859	1.00	10.90
ATOM	1332	CA	LEU	171	7.491	60.057	26.469	1.00	5.82
ATOM	1333	CB	LEU	171	8.856	60.687	26.207	1.00	2.00
ATOM	1334	CG	LEU	171	10.043	59.750	26.022	1.00	2.00
ATOM	1335	CD1	LEU	171	11.044	60.381	25.091	1.00	6.69
ATOM	1336	CD2	LEU	171	10.673	59.426	27.357	1.00	2.00
ATOM	1337	C	LEU	171	7.561	59.081	27.608	1.00	10.37
ATOM	1338	O	LEU	171	7.403	59.467	28.762	1.00	17.54
ATOM	1339	N	GLY	172	7.789	57.814	27.283	1.00	5.81
ATOM	1340	CA	GLY	172	7.862	56.799	28.310	1.00	2.00
ATOM	1341	C	GLY	172	9.109	55.977	28.148	1.00	4.22
ATOM	1342	O	GLY	172	9.602	55.808	27.036	1.00	8.28
ATOM	1343	N	GLY	173	9.623	55.492	29.272	1.00	8.09
ATOM	1344	CA	GLY	173	10.819	54.666	29.288	1.00	14.16
ATOM	1345	C	GLY	173	10.632	53.661	30.410	1.00	20.63
ATOM	1346	O	GLY	173	10.735	54.023	31.593	1.00	22.53
ATOM	1347	N	PRO	174	10.364	52.385	30.077	1.00	20.18
ATOM	1348	CD	PRO	174	10.267	51.864	28.704	1.00	13.27
ATOM	1349	CA	PRO	174	10.144	51.311	31.048	1.00	11.93
ATOM	1350	CB	PRO	174	9.889	50.094	30.158	1.00	8.78
ATOM	1351	CG	PRO	174	9.367	50.689	28.892	1.00	12.98
ATOM	1352	C	PRO	174	11.250	51.022	32.055	1.00	14.95
ATOM	1353	O	PRO	174	10.956	50.758	33.212	1.00	27.00
ATOM	1354	N	GLY	175	12.512	51.129	31.651	1.00	9.20
ATOM	1355	CA	GLY	175	13.602	50.790	32.556	1.00	5.77
ATOM	1356	C	GLY	175	14.140	51.709	33.635	1.00	5.81
ATOM	1357	O	GLY	175	15.102	51.342	34.315	1.00	5.61
ATOM	1358	N	SER	176	13.548	52.887	33.798	1.00	11.98
ATOM	1359	CA	SER	176	14.021	53.839	34.800	1.00	11.97
ATOM	1360	CB	SER	176	13.160	55.099	34.826	1.00	13.17
ATOM	1361	OG	SER	176	13.493	55.954	33.749	1.00	23.72
ATOM	1362	C	SER	176	14.016	53.217	36.165	1.00	12.26
ATOM	1363	O	SER	176	13.091	52.474	36.510	1.00	14.12

ATOM	1364	N	PHE	177	15.055	53.529	36.941	1.00	12.37
ATOM	1365	CA	PHE	177	15.195	52.999	38.291	1.00	12.75
ATOM	1366	CB	PHE	177	13.997	53.470	39.107	1.00	9.24
ATOM	1367	CG	PHE	177	13.651	54.898	38.810	1.00	11.77
ATOM	1368	CD1	PHE	177	12.376	55.254	38.394	1.00	17.35
ATOM	1369	CD2	PHE	177	14.659	55.867	38.775	1.00	11.10
ATOM	1370	CE1	PHE	177	12.121	56.550	37.932	1.00	20.51
ATOM	1371	CE2	PHE	177	14.407	57.158	38.316	1.00	5.27
ATOM	1372	CZ	PHE	177	13.146	57.498	37.893	1.00	7.84
ATOM	1373	C	PHE	177	15.262	51.505	38.049	1.00	15.70
ATOM	1374	O	PHE	177	15.849	51.103	37.035	1.00	30.74
ATOM	1375	N	TYR	178	14.724	50.655	38.908	1.00	2.74
ATOM	1376	CA	TYR	178	14.849	49.257	38.540	1.00	5.55
ATOM	1377	CB	TYR	178	15.174	48.381	39.738	1.00	5.27
ATOM	1378	CG	TYR	178	16.608	48.447	40.204	1.00	2.00
ATOM	1379	CD1	TYR	178	17.611	47.723	39.565	1.00	3.93
ATOM	1380	CE1	TYR	178	18.917	47.723	40.054	1.00	2.00
ATOM	1381	CD2	TYR	178	16.946	49.170	41.330	1.00	3.10
ATOM	1382	CE2	TYR	178	18.231	49.183	41.827	1.00	2.00
ATOM	1383	CZ	TYR	178	19.213	48.458	41.193	1.00	6.02
ATOM	1384	OH	TYR	178	20.482	48.472	41.726	1.00	20.21
ATOM	1385	C	TYR	178	13.618	48.765	37.785	1.00	11.82
ATOM	1386	O	TYR	178	12.814	47.990	38.295	1.00	20.72
ATOM	1387	N	TRP	179	13.483	49.233	36.549	1.00	6.55
ATOM	1388	CA	TRP	179	12.369	48.870	35.703	1.00	2.00
ATOM	1389	CB	TRP	179	12.435	47.407	35.351	1.00	2.00
ATOM	1390	CG	TRP	179	13.564	47.178	34.464	1.00	12.10
ATOM	1391	CD2	TRP	179	14.920	46.935	34.855	1.00	17.16
ATOM	1392	CE2	TRP	179	15.685	46.857	33.675	1.00	19.52
ATOM	1393	CE3	TRP	179	15.562	46.774	36.087	1.00	18.76
ATOM	1394	CD1	TRP	179	13.558	47.231	33.100	1.00	11.70
ATOM	1395	NE1	TRP	179	14.829	47.043	32.617	1.00	20.90
ATOM	1396	CZ2	TRP	179	17.066	46.624	33.694	1.00	17.29
ATOM	1397	CZ3	TRP	179	16.934	46.541	36.100	1.00	18.72
ATOM	1398	CH2	TRP	179	17.668	46.468	34.912	1.00	8.19
ATOM	1399	C	TRP	179	11.024	49.252	36.270	1.00	3.20
ATOM	1400	O	TRP	179	9.997	48.645	35.965	1.00	2.00
ATOM	1401	N	GLN	180	11.043	50.284	37.100	1.00	2.00
ATOM	1402	CA	GLN	180	9.829	50.803	37.668	1.00	2.00
ATOM	1403	CB	GLN	180	10.157	51.865	38.702	1.00	2.26
ATOM	1404	CG	GLN	180	11.098	51.429	39.797	1.00	2.76
ATOM	1405	CD	GLN	180	10.769	52.113	41.107	1.00	5.08
ATOM	1406	OE1	GLN	180	11.173	51.661	42.170	1.00	4.32
ATOM	1407	NE2	GLN	180	10.007	53.200	41.037	1.00	2.00
ATOM	1408	C	GLN	180	9.118	51.457	36.495	1.00	2.00
ATOM	1409	O	GLN	180	7.928	51.290	36.307	1.00	8.99
ATOM	1410	N	GLY	181	9.885	52.165	35.672	1.00	5.62
ATOM	1411	CA	GLY	181	9.322	52.841	34.522	1.00	2.00
ATOM	1412	C	GLY	181	9.330	54.330	34.756	1.00	5.43
ATOM	1413	O	GLY	181	9.565	54.801	35.877	1.00	9.57
ATOM	1414	N	GLN	182	9.058	55.089	33.703	1.00	7.73
ATOM	1415	CA	GLN	182	9.044	56.535	33.832	1.00	8.37
ATOM	1416	CB	GLN	182	10.476	57.037	33.972	1.00	7.98
ATOM	1417	CG	GLN	182	10.674	58.465	33.584	1.00	6.34
ATOM	1418	CD	GLN	182	11.606	59.175	34.505	1.00	6.31
ATOM	1419	OE1	GLN	182	11.233	60.180	35.103	1.00	16.30
ATOM	1420	NE2	GLN	182	12.824	58.660	34.648	1.00	2.00

ATOM	1421	C	GLN	182	8.343	57.268	32.702	1.00	10.19
ATOM	1422	O	GLN	182	8.358	56.815	31.556	1.00	10.09
ATOM	1423	N	LEU	183	7.681	58.371	33.061	1.00	12.69
ATOM	1424	CA	LEU	183	6.997	59.248	32.106	1.00	12.72
ATOM	1425	CB	LEU	183	5.523	59.421	32.442	1.00	8.88
ATOM	1426	CG	LEU	183	4.606	58.233	32.207	1.00	2.33
ATOM	1427	CD1	LEU	183	3.173	58.731	32.162	1.00	2.00
ATOM	1428	CD2	LEU	183	4.981	57.563	30.903	1.00	3.19
ATOM	1429	C	LEU	183	7.677	60.606	32.188	1.00	12.70
ATOM	1430	O	LEU	183	7.905	61.117	33.283	1.00	17.32
ATOM	1431	N	ILE	184	8.015	61.179	31.039	1.00	11.68
ATOM	1432	CA	ILE	184	8.683	62.472	31.003	1.00	12.86
ATOM	1433	CB	ILE	184	10.197	62.311	30.779	1.00	4.18
ATOM	1434	CG2	ILE	184	10.860	63.652	30.777	1.00	3.58
ATOM	1435	CG1	ILE	184	10.813	61.479	31.888	1.00	2.00
ATOM	1436	CD1	ILE	184	12.270	61.209	31.661	1.00	10.75
ATOM	1437	C	ILE	184	8.135	63.389	29.912	1.00	16.20
ATOM	1438	O	ILE	184	8.439	63.231	28.723	1.00	20.35
ATOM	1439	N	SER	185	7.332	64.365	30.317	1.00	16.91
ATOM	1440	CA	SER	185	6.785	65.290	29.348	1.00	10.95
ATOM	1441	CB	SER	185	5.292	65.488	29.551	1.00	7.71
ATOM	1442	OG	SER	185	4.726	66.063	28.388	1.00	9.15
ATOM	1443	C	SER	185	7.501	66.631	29.356	1.00	11.59
ATOM	1444	O	SER	185	7.720	67.242	30.403	1.00	4.37
ATOM	1445	N	ASP	186	7.918	67.041	28.169	1.00	11.17
ATOM	1446	CA	ASP	186	8.594	68.304	27.975	1.00	12.73
ATOM	1447	CB	ASP	186	10.039	68.080	27.575	1.00	9.95
ATOM	1448	CG	ASP	186	10.967	68.063	28.767	1.00	22.30
ATOM	1449	OD1	ASP	186	11.199	69.141	29.354	1.00	20.40
ATOM	1450	OD2	ASP	186	11.464	66.979	29.127	1.00	18.23
ATOM	1451	C	ASP	186	7.864	69.014	26.869	1.00	14.86
ATOM	1452	O	ASP	186	7.367	68.375	25.943	1.00	18.48
ATOM	1453	N	GLN	187	7.725	70.327	26.996	1.00	17.57
ATOM	1454	CA	GLN	187	7.048	71.085	25.956	1.00	17.84
ATOM	1455	CB	GLN	187	6.594	72.460	26.453	1.00	20.61
ATOM	1456	CG	GLN	187	7.559	73.166	27.387	1.00	29.63
ATOM	1457	CD	GLN	187	6.906	74.334	28.122	1.00	32.58
ATOM	1458	OE1	GLN	187	7.483	75.420	28.229	1.00	34.54
ATOM	1459	NE2	GLN	187	5.698	74.109	28.642	1.00	26.83
ATOM	1460	C	GLN	187	7.996	71.233	24.806	1.00	14.91
ATOM	1461	O	GLN	187	9.204	71.295	24.999	1.00	18.46
ATOM	1462	N	VAL	188	7.457	71.202	23.599	1.00	15.97
ATOM	1463	CA	VAL	188	8.280	71.358	22.418	1.00	15.81
ATOM	1464	CB	VAL	188	7.441	71.218	21.165	1.00	5.87
ATOM	1465	CG1	VAL	188	8.325	70.942	19.982	1.00	12.91
ATOM	1466	CG2	VAL	188	6.416	70.137	21.344	1.00	2.50
ATOM	1467	C	VAL	188	8.788	72.789	22.492	1.00	25.38
ATOM	1468	O	VAL	188	8.347	73.557	23.352	1.00	37.71
ATOM	1469	N	ALA	189	9.693	73.162	21.596	1.00	30.64
ATOM	1470	CA	ALA	189	10.240	74.523	21.584	1.00	34.07
ATOM	1471	CB	ALA	189	9.126	75.578	21.685	1.00	29.49
ATOM	1472	C	ALA	189	11.247	74.675	22.717	1.00	33.30
ATOM	1473	O	ALA	189	12.213	75.423	22.602	1.00	36.74
ATOM	1474	N	GLU	190	10.979	74.005	23.832	1.00	30.54
ATOM	1475	CA	GLU	190	11.897	73.994	24.956	1.00	32.21
ATOM	1476	CB	GLU	190	11.186	73.537	26.220	1.00	29.62
ATOM	1477	CG	GLU	190	12.104	73.336	27.397	1.00	41.11

ATOM	1478	CD	GLU	190	12.074	74.498	28.359	1.00	55.17
ATOM	1479	OE1	GLU	190	12.882	75.439	28.185	1.00	62.20
ATOM	1480	OE2	GLU	190	11.234	74.468	29.289	1.00	57.26
ATOM	1481	C	GLU	190	12.875	72.917	24.508	1.00	31.69
ATOM	1482	O	GLU	190	14.088	73.077	24.581	1.00	36.59
ATOM	1483	N	ILE	191	12.309	71.839	23.975	1.00	35.67
ATOM	1484	CA	ILE	191	13.062	70.702	23.466	1.00	27.73
ATOM	1485	CB	ILE	191	12.084	69.583	23.023	1.00	22.23
ATOM	1486	CG2	ILE	191	12.831	68.437	22.347	1.00	12.16
ATOM	1487	CG1	ILE	191	11.299	69.096	24.249	1.00	18.64
ATOM	1488	CD1	ILE	191	10.241	68.057	23.974	1.00	18.64
ATOM	1489	C	ILE	191	13.919	71.179	22.304	1.00	24.81
ATOM	1490	O	ILE	191	14.920	70.562	21.948	1.00	22.40
ATOM	1491	N	VAL	192	13.544	72.329	21.764	1.00	22.10
ATOM	1492	CA	VAL	192	14.255	72.914	20.652	1.00	31.03
ATOM	1493	CB	VAL	192	13.286	73.538	19.626	1.00	38.72
ATOM	1494	CG1	VAL	192	14.062	74.093	18.445	1.00	35.62
ATOM	1495	CG2	VAL	192	12.270	72.505	19.156	1.00	48.16
ATOM	1496	C	VAL	192	15.182	73.998	21.141	1.00	33.37
ATOM	1497	O	VAL	192	16.397	73.866	21.030	1.00	38.13
ATOM	1498	N	SER	193	14.600	75.063	21.697	1.00	33.84
ATOM	1499	CA	SER	193	15.361	76.213	22.189	1.00	28.16
ATOM	1500	CB	SER	193	14.442	77.212	22.919	1.00	31.52
ATOM	1501	OG	SER	193	14.093	76.794	24.231	1.00	26.73
ATOM	1502	C	SER	193	16.537	75.839	23.082	1.00	27.59
ATOM	1503	O	SER	193	17.600	76.457	23.013	1.00	29.00
ATOM	1504	N	LYS	194	16.356	74.799	23.889	1.00	26.31
ATOM	1505	CA	LYS	194	17.400	74.351	24.793	1.00	20.22
ATOM	1506	CB	LYS	194	16.784	73.797	26.075	1.00	21.13
ATOM	1507	CG	LYS	194	15.900	74.785	26.823	1.00	34.23
ATOM	1508	CD	LYS	194	16.658	76.051	27.199	1.00	46.72
ATOM	1509	CE	LYS	194	16.090	76.687	28.465	1.00	56.48
ATOM	1510	NZ	LYS	194	16.383	75.872	29.694	1.00	55.24
ATOM	1511	C	LYS	194	18.380	73.338	24.201	1.00	15.84
ATOM	1512	O	LYS	194	19.263	72.856	24.909	1.00	19.65
ATOM	1513	N	TYR	195	18.254	73.024	22.915	1.00	4.81
ATOM	1514	CA	TYR	195	19.176	72.071	22.315	1.00	8.60
ATOM	1515	CB	TYR	195	18.691	71.598	20.942	1.00	3.86
ATOM	1516	CG	TYR	195	19.618	70.591	20.295	1.00	2.00
ATOM	1517	CD1	TYR	195	20.011	70.730	18.974	1.00	2.00
ATOM	1518	CE1	TYR	195	20.937	69.859	18.402	1.00	7.06
ATOM	1519	CD2	TYR	195	20.167	69.546	21.036	1.00	2.03
ATOM	1520	CE2	TYR	195	21.095	68.667	20.477	1.00	4.05
ATOM	1521	CZ	TYR	195	21.475	68.834	19.160	1.00	8.11
ATOM	1522	OH	TYR	195	22.405	67.988	18.606	1.00	13.97
ATOM	1523	C	TYR	195	20.550	72.706	22.189	1.00	11.63
ATOM	1524	O	TYR	195	20.662	73.897	21.920	1.00	26.57
ATOM	1525	N	ASP	196	21.586	71.906	22.415	1.00	7.14
ATOM	1526	CA	ASP	196	22.969	72.349	22.321	1.00	7.24
ATOM	1527	CB	ASP	196	23.431	72.978	23.646	1.00	17.85
ATOM	1528	CG	ASP	196	24.906	73.432	23.621	1.00	27.88
ATOM	1529	OD1	ASP	196	25.579	73.348	22.562	1.00	33.23
ATOM	1530	OD2	ASP	196	25.389	73.893	24.682	1.00	22.68
ATOM	1531	C	ASP	196	23.808	71.126	22.012	1.00	8.63
ATOM	1532	O	ASP	196	24.147	70.348	22.899	1.00	16.69
ATOM	1533	N	PRO	197	24.220	70.983	20.751	1.00	2.91
ATOM	1534	CD	PRO	197	24.156	72.052	19.748	1.00	14.39

ATOM	1535	CA	PRO	197	25.036	69.870	20.264	1.00	8.60
ATOM	1536	CB	PRO	197	25.435	70.338	18.870	1.00	10.53
ATOM	1537	CG	PRO	197	25.437	71.827	18.997	1.00	17.34
ATOM	1538	C	PRO	197	26.268	69.598	21.115	1.00	10.38
ATOM	1539	O	PRO	197	26.934	68.573	20.950	1.00	9.51
ATOM	1540	N	ASN	198	26.571	70.522	22.019	1.00	18.85
ATOM	1541	CA	ASN	198	27.721	70.372	22.889	1.00	20.78
ATOM	1542	CB	ASN	198	28.594	71.613	22.833	1.00	16.55
ATOM	1543	CG	ASN	198	29.272	71.758	21.498	1.00	22.99
ATOM	1544	OD1	ASN	198	29.916	70.822	21.018	1.00	20.03
ATOM	1545	ND2	ASN	198	29.090	72.907	20.858	1.00	33.82
ATOM	1546	C	ASN	198	27.394	69.975	24.311	1.00	21.34
ATOM	1547	O	ASN	198	28.262	69.980	25.180	1.00	26.40
ATOM	1548	N	VAL	199	26.140	69.616	24.550	1.00	22.45
ATOM	1549	CA	VAL	199	25.736	69.158	25.872	1.00	31.03
ATOM	1550	CB	VAL	199	24.814	70.159	26.581	1.00	37.28
ATOM	1551	CG1	VAL	199	24.562	69.722	28.031	1.00	36.54
ATOM	1552	CG2	VAL	199	25.435	71.529	26.552	1.00	42.54
ATOM	1553	C	VAL	199	25.042	67.803	25.731	1.00	29.88
ATOM	1554	O	VAL	199	24.069	67.653	24.981	1.00	31.14
ATOM	1555	N	TYR	200	25.578	66.810	26.431	1.00	26.65
ATOM	1556	CA	TYR	200	25.032	65.461	26.383	1.00	26.61
ATOM	1557	CB	TYR	200	26.142	64.429	26.664	1.00	28.99
ATOM	1558	CG	TYR	200	27.357	64.467	25.737	1.00	23.13
ATOM	1559	CD1	TYR	200	27.213	64.460	24.347	1.00	9.55
ATOM	1560	CE1	TYR	200	28.318	64.419	23.504	1.00	2.00
ATOM	1561	CD2	TYR	200	28.653	64.444	26.258	1.00	18.20
ATOM	1562	CE2	TYR	200	29.764	64.401	25.422	1.00	14.30
ATOM	1563	CZ	TYR	200	29.593	64.385	24.043	1.00	13.02
ATOM	1564	OH	TYR	200	30.702	64.304	23.210	1.00	13.92
ATOM	1565	C	TYR	200	23.873	65.262	27.376	1.00	20.98
ATOM	1566	O	TYR	200	23.134	64.282	27.286	1.00	21.93
ATOM	1567	N	SER	201	23.700	66.196	28.307	1.00	11.61
ATOM	1568	CA	SER	201	22.639	66.073	29.298	1.00	9.02
ATOM	1569	CB	SER	201	23.216	65.505	30.592	1.00	11.58
ATOM	1570	OG	SER	201	23.930	64.306	30.347	1.00	7.24
ATOM	1571	C	SER	201	21.971	67.420	29.552	1.00	8.87
ATOM	1572	O	SER	201	22.252	68.112	30.532	1.00	15.30
ATOM	1573	N	ILE	202	21.059	67.766	28.660	1.00	6.66
ATOM	1574	CA	ILE	202	20.333	69.026	28.705	1.00	12.58
ATOM	1575	CB	ILE	202	19.783	69.343	27.293	1.00	4.99
ATOM	1576	CG2	ILE	202	18.875	70.566	27.299	1.00	2.00
ATOM	1577	CG1	ILE	202	20.958	69.496	26.329	1.00	2.00
ATOM	1578	CD1	ILE	202	20.549	69.616	24.897	1.00	8.33
ATOM	1579	C	ILE	202	19.210	69.084	29.734	1.00	13.41
ATOM	1580	O	ILE	202	18.442	68.140	29.885	1.00	22.51
ATOM	1581	N	LYS	203	19.110	70.218	30.418	1.00	25.46
ATOM	1582	CA	LYS	203	18.077	70.430	31.428	1.00	38.18
ATOM	1583	CB	LYS	203	18.685	71.071	32.683	1.00	48.71
ATOM	1584	CG	LYS	203	19.877	70.296	33.242	1.00	65.02
ATOM	1585	CD	LYS	203	20.700	71.122	34.228	1.00	73.82
ATOM	1586	CE	LYS	203	22.060	70.469	34.503	1.00	79.50
ATOM	1587	NZ	LYS	203	22.933	70.391	33.284	1.00	85.61
ATOM	1588	C	LYS	203	16.997	71.336	30.854	1.00	36.72
ATOM	1589	O	LYS	203	17.261	72.489	30.508	1.00	36.01
ATOM	1590	N	TYR	204	15.792	70.795	30.719	1.00	37.55
ATOM	1591	CA	TYR	204	14.670	71.559	30.188	1.00	35.54

ATOM	1592	CB	TYR	204	13.759	70.644	29.364	1.00	30.25
ATOM	1593	CG	TYR	204	14.455	70.037	28.162	1.00	25.34
ATOM	1594	CD1	TYR	204	15.107	68.804	28.252	1.00	25.92
ATOM	1595	CE1	TYR	204	15.803	68.265	27.158	1.00	22.82
ATOM	1596	CD2	TYR	204	14.509	70.718	26.948	1.00	28.87
ATOM	1597	CE2	TYR	204	15.199	70.193	25.848	1.00	32.49
ATOM	1598	CZ	TYR	204	15.846	68.969	25.956	1.00	33.06
ATOM	1599	OH	TYR	204	16.546	68.472	24.865	1.00	29.95
ATOM	1600	C	TYR	204	13.933	72.220	31.354	1.00	36.38
ATOM	1601	O	TYR	204	13.811	71.633	32.434	1.00	36.34
ATOM	1602	N	ASN	205	13.481	73.454	31.148	1.00	37.87
ATOM	1603	CA	ASN	205	12.801	74.208	32.197	1.00	46.19
ATOM	1604	CB	ASN	205	12.649	75.678	31.798	1.00	54.41
ATOM	1605	CG	ASN	205	13.899	76.492	32.080	1.00	61.97
ATOM	1606	OD1	ASN	205	14.583	76.274	33.086	1.00	64.93
ATOM	1607	ND2	ASN	205	14.198	77.446	31.200	1.00	64.95
ATOM	1608	C	ASN	205	11.471	73.671	32.700	1.00	47.32
ATOM	1609	O	ASN	205	11.395	73.159	33.822	1.00	44.11
ATOM	1610	N	ASN	206	10.425	73.821	31.889	1.00	46.37
ATOM	1611	CA	ASN	206	9.078	73.371	32.258	1.00	43.94
ATOM	1612	CB	ASN	206	8.022	74.186	31.507	1.00	45.85
ATOM	1613	CG	ASN	206	8.057	75.651	31.863	1.00	44.77
ATOM	1614	OD1	ASN	206	8.655	76.045	32.866	1.00	42.40
ATOM	1615	ND2	ASN	206	7.405	76.470	31.049	1.00	49.94
ATOM	1616	C	ASN	206	8.804	71.883	32.069	1.00	37.70
ATOM	1617	O	ASN	206	7.710	71.498	31.657	1.00	36.39
ATOM	1618	N	GLN	207	9.790	71.056	32.392	1.00	32.04
ATOM	1619	CA	GLN	207	9.657	69.612	32.272	1.00	26.64
ATOM	1620	CB	GLN	207	11.026	68.948	32.379	1.00	19.83
ATOM	1621	CG	GLN	207	11.008	67.440	32.210	1.00	12.86
ATOM	1622	CD	GLN	207	12.391	66.821	32.350	1.00	17.54
ATOM	1623	OE1	GLN	207	12.742	66.310	33.420	1.00	15.17
ATOM	1624	NE2	GLN	207	13.184	66.864	31.269	1.00	2.00
ATOM	1625	C	GLN	207	8.744	69.033	33.345	1.00	27.55
ATOM	1626	O	GLN	207	8.471	69.671	34.360	1.00	29.13
ATOM	1627	N	LEU	208	8.256	67.826	33.081	1.00	29.42
ATOM	1628	CA	LEU	208	7.387	67.078	33.983	1.00	23.47
ATOM	1629	CB	LEU	208	5.947	67.120	33.479	1.00	22.80
ATOM	1630	CG	LEU	208	5.280	68.497	33.525	1.00	19.27
ATOM	1631	CD1	LEU	208	4.021	68.531	32.693	1.00	13.75
ATOM	1632	CD2	LEU	208	4.965	68.853	34.961	1.00	21.53
ATOM	1633	C	LEU	208	7.938	65.664	33.899	1.00	27.14
ATOM	1634	O	LEU	208	8.258	65.191	32.803	1.00	30.36
ATOM	1635	N	ALA	209	8.118	65.015	35.048	1.00	28.62
ATOM	1636	CA	ALA	209	8.672	63.659	35.079	1.00	26.68
ATOM	1637	CB	ALA	209	10.183	63.707	34.941	1.00	15.70
ATOM	1638	C	ALA	209	8.281	62.854	36.317	1.00	28.30
ATOM	1639	O	ALA	209	8.075	63.409	37.399	1.00	34.25
ATOM	1640	N	THR	210	8.168	61.540	36.142	1.00	29.72
ATOM	1641	CA	THR	210	7.798	60.652	37.236	1.00	24.82
ATOM	1642	CB	THR	210	6.780	59.569	36.789	1.00	18.19
ATOM	1643	OG1	THR	210	7.411	58.603	35.934	1.00	15.00
ATOM	1644	CG2	THR	210	5.642	60.224	36.040	1.00	13.77
ATOM	1645	C	THR	210	9.027	60.029	37.881	1.00	23.50
ATOM	1646	O	THR	210	9.611	59.078	37.372	1.00	30.06
ATOM	1647	N	ARG	211	9.409	60.621	39.002	1.00	26.53
ATOM	1648	CA	ARG	211	10.550	60.229	39.831	1.00	31.15

ATOM	1649	CB	ARG	211	10.629	61.216	41.011	1.00	40.38
ATOM	1650	CG	ARG	211	9.236	61.645	41.541	1.00	52.55
ATOM	1651	CD	ARG	211	9.241	62.986	42.289	1.00	63.13
ATOM	1652	NE	ARG	211	7.880	63.446	42.600	1.00	74.08
ATOM	1653	CZ	ARG	211	7.478	63.897	43.789	1.00	75.62
ATOM	1654	NH1	ARG	211	8.331	63.963	44.808	1.00	78.58
ATOM	1655	NH2	ARG	211	6.212	64.263	43.970	1.00	72.48
ATOM	1656	C	ARG	211	10.544	58.771	40.342	1.00	24.06
ATOM	1657	O	ARG	211	9.544	58.057	40.223	1.00	22.15
ATOM	1658	N	THR	212	11.672	58.339	40.901	1.00	13.80
ATOM	1659	CA	THR	212	11.811	56.982	41.430	1.00	13.65
ATOM	1660	CB	THR	212	13.259	56.659	41.824	1.00	15.91
ATOM	1661	OG1	THR	212	13.295	55.389	42.482	1.00	21.34
ATOM	1662	CG2	THR	212	13.800	57.694	42.767	1.00	13.19
ATOM	1663	C	THR	212	10.964	56.739	42.660	1.00	11.91
ATOM	1664	O	THR	212	10.875	57.598	43.521	1.00	8.94
ATOM	1665	N	ALA	213	10.396	55.539	42.762	1.00	16.21
ATOM	1666	CA	ALA	213	9.565	55.174	43.908	1.00	18.98
ATOM	1667	CB	ALA	213	8.146	54.857	43.461	1.00	27.23
ATOM	1668	C	ALA	213	10.160	53.998	44.683	1.00	20.94
ATOM	1669	O	ALA	213	11.268	53.537	44.371	1.00	18.30
ATOM	1670	N	GLN	214	9.411	53.515	45.681	1.00	18.73
ATOM	1671	CA	GLN	214	9.845	52.415	46.542	1.00	22.17
ATOM	1672	CB	GLN	214	8.804	52.141	47.626	1.00	29.48
ATOM	1673	CG	GLN	214	8.502	53.344	48.531	1.00	37.01
ATOM	1674	CD	GLN	214	7.104	53.921	48.314	1.00	41.28
ATOM	1675	OE1	GLN	214	6.552	53.840	47.217	1.00	46.22
ATOM	1676	NE2	GLN	214	6.531	54.511	49.363	1.00	42.19
ATOM	1677	C	GLN	214	10.184	51.136	45.784	1.00	23.15
ATOM	1678	O	GLN	214	9.590	50.839	44.744	1.00	25.65
ATOM	1679	N	ALA	215	11.127	50.379	46.339	1.00	18.25
ATOM	1680	CA	ALA	215	11.616	49.136	45.750	1.00	11.84
ATOM	1681	CB	ALA	215	12.584	48.487	46.690	1.00	19.00
ATOM	1682	C	ALA	215	10.564	48.122	45.314	1.00	14.22
ATOM	1683	O	ALA	215	10.738	47.451	44.302	1.00	11.03
ATOM	1684	N	ILE	216	9.486	47.990	46.086	1.00	11.06
ATOM	1685	CA	ILE	216	8.424	47.047	45.756	1.00	6.70
ATOM	1686	CB	ILE	216	7.340	47.022	46.844	1.00	6.00
ATOM	1687	CG2	ILE	216	6.585	48.332	46.859	1.00	6.68
ATOM	1688	CG1	ILE	216	6.386	45.847	46.606	1.00	15.93
ATOM	1689	CD1	ILE	216	5.216	45.757	47.580	1.00	25.12
ATOM	1690	C	ILE	216	7.764	47.375	44.418	1.00	9.17
ATOM	1691	O	ILE	216	6.881	46.652	43.966	1.00	20.13
ATOM	1692	N	PHE	217	8.174	48.473	43.791	1.00	9.90
ATOM	1693	CA	PHE	217	7.613	48.859	42.503	1.00	6.03
ATOM	1694	CB	PHE	217	7.239	50.334	42.496	1.00	5.86
ATOM	1695	CG	PHE	217	6.006	50.652	43.296	1.00	18.64
ATOM	1696	CD1	PHE	217	4.744	50.256	42.846	1.00	16.81
ATOM	1697	CD2	PHE	217	6.094	51.380	44.482	1.00	16.97
ATOM	1698	CE1	PHE	217	3.582	50.587	43.565	1.00	11.89
ATOM	1699	CE2	PHE	217	4.936	51.714	45.207	1.00	17.98
ATOM	1700	CZ	PHE	217	3.680	51.318	44.746	1.00	6.92
ATOM	1701	C	PHE	217	8.553	48.588	41.350	1.00	7.93
ATOM	1702	O	PHE	217	8.289	49.024	40.244	1.00	11.37
ATOM	1703	N	ASP	218	9.651	47.878	41.604	1.00	6.19
ATOM	1704	CA	ASP	218	10.624	47.565	40.559	1.00	2.00
ATOM	1705	CB	ASP	218	11.901	46.997	41.157	1.00	2.00

ATOM	1706	CG	ASP	218	12.583	47.949	42.124	1.00	12.42
ATOM	1707	OD1	ASP	218	13.621	47.549	42.674	1.00	18.76
ATOM	1708	OD2	ASP	218	12.103	49.081	42.350	1.00	15.65
ATOM	1709	C	ASP	218	10.051	46.552	39.597	1.00	2.00
ATOM	1710	O	ASP	218	9.232	45.729	39.976	1.00	12.19
ATOM	1711	N	ASP	219	10.494	46.614	38.349	1.00	5.99
ATOM	1712	CA	ASP	219	10.042	45.708	37.293	1.00	5.19
ATOM	1713	CB	ASP	219	10.396	44.257	37.635	1.00	7.14
ATOM	1714	CG	ASP	219	11.792	44.116	38.227	1.00	11.61
ATOM	1715	OD1	ASP	219	12.801	44.100	37.481	1.00	22.75
ATOM	1716	OD2	ASP	219	11.875	44.015	39.458	1.00	13.58
ATOM	1717	C	ASP	219	8.546	45.846	36.983	1.00	7.62
ATOM	1718	O	ASP	219	7.858	44.857	36.705	1.00	8.99
ATOM	1719	N	SER	220	8.047	47.079	37.047	1.00	6.25
ATOM	1720	CA	SER	220	6.649	47.364	36.750	1.00	6.93
ATOM	1721	CB	SER	220	6.124	48.453	37.671	1.00	6.96
ATOM	1722	OG	SER	220	6.401	48.126	39.018	1.00	18.51
ATOM	1723	C	SER	220	6.471	47.782	35.294	1.00	7.44
ATOM	1724	O	SER	220	5.398	47.617	34.733	1.00	14.76
ATOM	1725	N	TYR	221	7.515	48.365	34.707	1.00	2.35
ATOM	1726	CA	TYR	221	7.520	48.789	33.307	1.00	5.75
ATOM	1727	CB	TYR	221	7.198	47.616	32.363	1.00	5.71
ATOM	1728	CG	TYR	221	8.230	46.513	32.229	1.00	3.81
ATOM	1729	CD1	TYR	221	7.961	45.394	31.448	1.00	2.00
ATOM	1730	CE1	TYR	221	8.872	44.349	31.346	1.00	2.00
ATOM	1731	CD2	TYR	221	9.445	46.559	32.905	1.00	9.20
ATOM	1732	CE2	TYR	221	10.369	45.506	32.807	1.00	3.97
ATOM	1733	CZ	TYR	221	10.072	44.411	32.026	1.00	2.00
ATOM	1734	OH	TYR	221	10.979	43.381	31.905	1.00	14.13
ATOM	1735	C	TYR	221	6.634	49.960	32.892	1.00	8.70
ATOM	1736	O	TYR	221	6.160	49.975	31.751	1.00	11.74
ATOM	1737	N	LEU	222	6.423	50.943	33.766	1.00	9.01
ATOM	1738	CA	LEU	222	5.609	52.118	33.399	1.00	10.84
ATOM	1739	CB	LEU	222	5.563	53.130	34.550	1.00	5.49
ATOM	1740	CG	LEU	222	5.059	54.556	34.302	1.00	2.00
ATOM	1741	CD1	LEU	222	3.803	54.569	33.475	1.00	2.00
ATOM	1742	CD2	LEU	222	4.834	55.231	35.633	1.00	2.00
ATOM	1743	C	LEU	222	6.203	52.781	32.157	1.00	8.97
ATOM	1744	O	LEU	222	7.419	52.901	32.038	1.00	15.86
ATOM	1745	N	GLY	223	5.355	53.193	31.225	1.00	2.00
ATOM	1746	CA	GLY	223	5.870	53.807	30.015	1.00	3.45
ATOM	1747	C	GLY	223	6.002	52.824	28.866	1.00	3.85
ATOM	1748	O	GLY	223	6.703	53.073	27.884	1.00	2.00
ATOM	1749	N	TYR	224	5.355	51.673	29.009	1.00	3.98
ATOM	1750	CA	TYR	224	5.367	50.649	27.968	1.00	2.13
ATOM	1751	CB	TYR	224	4.850	49.315	28.549	1.00	3.80
ATOM	1752	CG	TYR	224	5.142	48.080	27.724	1.00	2.00
ATOM	1753	CD1	TYR	224	6.116	47.164	28.128	1.00	2.00
ATOM	1754	CE1	TYR	224	6.423	46.052	27.362	1.00	2.00
ATOM	1755	CD2	TYR	224	4.474	47.844	26.535	1.00	2.00
ATOM	1756	CE2	TYR	224	4.772	46.741	25.755	1.00	2.00
ATOM	1757	CZ	TYR	224	5.747	45.849	26.170	1.00	2.00
ATOM	1758	OH	TYR	224	6.063	44.780	25.369	1.00	4.02
ATOM	1759	C	TYR	224	4.404	51.183	26.901	1.00	3.79
ATOM	1760	O	TYR	224	4.706	51.190	25.709	1.00	2.37
ATOM	1761	N	SER	225	3.251	51.662	27.359	1.00	4.08
ATOM	1762	CA	SER	225	2.241	52.196	26.476	1.00	5.57

ATOM	1763	CB	SER	225	1.010	51.325	26.462	1.00	2.00
ATOM	1764	OG	SER	225	0.165	51.773	25.425	1.00	15.78
ATOM	1765	C	SER	225	1.846	53.574	26.929	1.00	18.33
ATOM	1766	O	SER	225	1.707	53.839	28.131	1.00	16.92
ATOM	1767	N	VAL	226	1.578	54.423	25.945	1.00	21.81
ATOM	1768	CA	VAL	226	1.216	55.809	26.196	1.00	15.88
ATOM	1769	CB	VAL	226	2.494	56.686	26.110	1.00	15.01
ATOM	1770	CG1	VAL	226	2.211	58.039	25.519	1.00	11.52
ATOM	1771	CG2	VAL	226	3.103	56.821	27.489	1.00	14.12
ATOM	1772	C	VAL	226	0.119	56.321	25.266	1.00	12.31
ATOM	1773	O	VAL	226	0.075	56.011	24.072	1.00	17.80
ATOM	1774	N	ALA	227	-0.808	57.050	25.863	1.00	6.35
ATOM	1775	CA	ALA	227	-1.917	57.659	25.149	1.00	7.87
ATOM	1776	CB	ALA	227	-3.102	56.750	25.117	1.00	14.86
ATOM	1777	C	ALA	227	-2.227	58.895	25.960	1.00	12.93
ATOM	1778	O	ALA	227	-1.842	58.997	27.132	1.00	13.85
ATOM	1779	N	VAL	228	-2.989	59.806	25.382	1.00	15.12
ATOM	1780	CA	VAL	228	-3.256	61.031	26.096	1.00	14.26
ATOM	1781	CB	VAL	228	-2.054	61.979	25.898	1.00	12.15
ATOM	1782	CG1	VAL	228	-1.819	62.258	24.417	1.00	2.17
ATOM	1783	CG2	VAL	228	-2.245	63.236	26.690	1.00	20.45
ATOM	1784	C	VAL	228	-4.580	61.714	25.760	1.00	14.96
ATOM	1785	O	VAL	228	-4.927	61.878	24.590	1.00	12.45
ATOM	1786	N	GLY	229	-5.315	62.088	26.810	1.00	12.97
ATOM	1787	CA	GLY	229	-6.605	62.751	26.666	1.00	13.95
ATOM	1788	C	GLY	229	-6.861	63.600	27.894	1.00	18.10
ATOM	1789	O	GLY	229	-5.976	63.665	28.745	1.00	21.87
ATOM	1790	N	ASP	230	-8.051	64.203	28.031	1.00	21.47
ATOM	1791	CA	ASP	230	-8.340	65.059	29.190	1.00	24.94
ATOM	1792	CB	ASP	230	-9.568	65.927	28.966	1.00	28.97
ATOM	1793	CG	ASP	230	-9.504	67.234	29.769	1.00	34.62
ATOM	1794	OD1	ASP	230	-9.415	68.325	29.164	1.00	38.52
ATOM	1795	OD2	ASP	230	-9.523	67.170	31.013	1.00	25.41
ATOM	1796	C	ASP	230	-8.395	64.388	30.568	1.00	30.64
ATOM	1797	O	ASP	230	-7.378	64.341	31.246	1.00	38.99
ATOM	1798	N	PHE	231	-9.567	63.930	31.010	1.00	28.01
ATOM	1799	CA	PHE	231	-9.722	63.257	32.324	1.00	31.77
ATOM	1800	CB	PHE	231	-8.641	62.192	32.551	1.00	27.17
ATOM	1801	CG	PHE	231	-8.607	61.175	31.480	1.00	26.33
ATOM	1802	CD1	PHE	231	-9.715	60.368	31.254	1.00	27.13
ATOM	1803	CD2	PHE	231	-7.532	61.111	30.606	1.00	26.86
ATOM	1804	CE1	PHE	231	-9.764	59.523	30.166	1.00	28.81
ATOM	1805	CE2	PHE	231	-7.563	60.269	29.510	1.00	29.79
ATOM	1806	CZ	PHE	231	-8.686	59.471	29.286	1.00	34.48
ATOM	1807	C	PHE	231	-9.872	64.104	33.585	1.00	33.66
ATOM	1808	O	PHE	231	-10.677	63.761	34.458	1.00	35.62
ATOM	1809	N	ASN	232	-9.050	65.142	33.739	1.00	42.25
ATOM	1810	CA	ASN	232	-9.170	66.012	34.911	1.00	45.25
ATOM	1811	CB	ASN	232	-7.871	66.798	35.190	1.00	36.63
ATOM	1812	CG	ASN	232	-7.446	67.679	34.022	1.00	31.92
ATOM	1813	OD1	ASN	232	-8.070	67.669	32.974	1.00	27.11
ATOM	1814	ND2	ASN	232	-6.366	68.431	34.200	1.00	29.31
ATOM	1815	C	ASN	232	-10.325	66.962	34.621	1.00	51.90
ATOM	1816	O	ASN	232	-10.955	66.869	33.561	1.00	55.99
ATOM	1817	N	GLY	233	-10.604	67.867	35.555	1.00	58.69
ATOM	1818	CA	GLY	233	-11.684	68.822	35.371	1.00	58.39
ATOM	1819	C	GLY	233	-11.721	69.391	33.966	1.00	57.58

ATOM	1820	O	GLY	233	-12.636	69.094	33.201	1.00	59.23
ATOM	1821	N	ASP	234	-10.682	70.126	33.589	1.00	57.72
ATOM	1822	CA	ASP	234	-10.643	70.715	32.261	1.00	54.64
ATOM	1823	CB	ASP	234	-11.550	71.956	32.230	1.00	69.95
ATOM	1824	CG	ASP	234	-12.334	72.084	30.932	1.00	84.03
ATOM	1825	OD1	ASP	234	-13.532	71.718	30.922	1.00	85.51
ATOM	1826	OD2	ASP	234	-11.762	72.565	29.924	1.00	93.27
ATOM	1827	C	ASP	234	-9.241	71.100	31.805	1.00	45.01
ATOM	1828	O	ASP	234	-8.241	70.913	32.510	1.00	40.76
ATOM	1829	N	GLY	235	-9.187	71.630	30.595	1.00	38.06
ATOM	1830	CA	GLY	235	-7.931	72.067	30.051	1.00	43.11
ATOM	1831	C	GLY	235	-7.331	71.205	28.968	1.00	44.67
ATOM	1832	O	GLY	235	-8.001	70.742	28.033	1.00	43.26
ATOM	1833	N	ILE	236	-6.031	70.999	29.122	1.00	47.81
ATOM	1834	CA	ILE	236	-5.221	70.237	28.187	1.00	47.33
ATOM	1835	CB	ILE	236	-3.699	70.542	28.377	1.00	50.67
ATOM	1836	CG2	ILE	236	-3.183	71.379	27.206	1.00	57.18
ATOM	1837	CG1	ILE	236	-3.400	71.088	29.790	1.00	41.82
ATOM	1838	CD1	ILE	236	-3.902	72.499	30.081	1.00	29.23
ATOM	1839	C	ILE	236	-5.403	68.725	28.181	1.00	40.78
ATOM	1840	O	ILE	236	-6.505	68.199	28.349	1.00	39.46
ATOM	1841	N	ASP	237	-4.302	68.058	27.870	1.00	34.13
ATOM	1842	CA	ASP	237	-4.229	66.623	27.818	1.00	25.65
ATOM	1843	CB	ASP	237	-3.366	66.189	26.635	1.00	26.16
ATOM	1844	CG	ASP	237	-4.087	66.273	25.303	1.00	29.56
ATOM	1845	OD1	ASP	237	-3.482	65.877	24.281	1.00	30.20
ATOM	1846	OD2	ASP	237	-5.257	66.712	25.270	1.00	38.23
ATOM	1847	C	ASP	237	-3.585	66.151	29.107	1.00	26.54
ATOM	1848	O	ASP	237	-2.787	66.868	29.730	1.00	24.57
ATOM	1849	N	ASP	238	-3.986	64.957	29.528	1.00	23.67
ATOM	1850	CA	ASP	238	-3.450	64.328	30.716	1.00	22.08
ATOM	1851	CB	ASP	238	-4.540	64.070	31.730	1.00	17.77
ATOM	1852	CG	ASP	238	-4.991	65.337	32.408	1.00	28.31
ATOM	1853	OD1	ASP	238	-4.594	66.435	31.963	1.00	28.61
ATOM	1854	OD2	ASP	238	-5.736	65.243	33.400	1.00	36.72
ATOM	1855	C	ASP	238	-2.796	63.051	30.270	1.00	21.89
ATOM	1856	O	ASP	238	-3.180	62.471	29.254	1.00	19.46
ATOM	1857	N	PHE	239	-1.803	62.623	31.036	1.00	19.29
ATOM	1858	CA	PHE	239	-1.023	61.447	30.702	1.00	14.23
ATOM	1859	CB	PHE	239	0.357	61.613	31.292	1.00	10.54
ATOM	1860	CG	PHE	239	0.937	62.962	31.026	1.00	15.31
ATOM	1861	CD1	PHE	239	1.670	63.627	32.002	1.00	12.96
ATOM	1862	CD2	PHE	239	0.730	63.583	29.794	1.00	12.05
ATOM	1863	CE1	PHE	239	2.190	64.895	31.756	1.00	11.72
ATOM	1864	CE2	PHE	239	1.243	64.847	29.535	1.00	16.32
ATOM	1865	CZ	PHE	239	1.977	65.510	30.518	1.00	15.51
ATOM	1866	C	PHE	239	-1.608	60.117	31.084	1.00	14.53
ATOM	1867	O	PHE	239	-1.968	59.899	32.237	1.00	11.39
ATOM	1868	N	VAL	240	-1.716	59.244	30.083	1.00	9.65
ATOM	1869	CA	VAL	240	-2.245	57.897	30.269	1.00	15.14
ATOM	1870	CB	VAL	240	-3.518	57.650	29.425	1.00	17.05
ATOM	1871	CG1	VAL	240	-3.935	56.199	29.527	1.00	13.18
ATOM	1872	CG2	VAL	240	-4.655	58.540	29.908	1.00	16.49
ATOM	1873	C	VAL	240	-1.170	56.911	29.850	1.00	15.51
ATOM	1874	O	VAL	240	-0.662	56.977	28.722	1.00	19.68
ATOM	1875	N	SER	241	-0.825	55.995	30.756	1.00	13.82
ATOM	1876	CA	SER	241	0.209	55.008	30.469	1.00	11.16

ATOM	1877	CB	SER	241	1.562	55.520	30.916	1.00	2.00
ATOM	1878	OG	SER	241	2.518	54.492	30.815	1.00	12.07
ATOM	1879	C	SER	241	-0.011	53.639	31.079	1.00	14.87
ATOM	1880	O	SER	241	-0.252	53.515	32.283	1.00	14.72
ATOM	1881	N	GLY	242	0.129	52.612	30.239	1.00	17.12
ATOM	1882	CA	GLY	242	-0.037	51.244	30.692	1.00	17.75
ATOM	1883	C	GLY	242	1.212	50.756	31.400	1.00	17.06
ATOM	1884	O	GLY	242	2.324	50.985	30.929	1.00	24.58
ATOM	1885	N	VAL	243	1.027	50.113	32.552	1.00	13.78
ATOM	1886	CA	VAL	243	2.118	49.560	33.371	1.00	11.67
ATOM	1887	CB	VAL	243	2.117	50.248	34.753	1.00	9.34
ATOM	1888	CG1	VAL	243	3.314	49.831	35.582	1.00	10.80
ATOM	1889	CG2	VAL	243	2.079	51.739	34.567	1.00	11.84
ATOM	1890	C	VAL	243	1.802	48.061	33.535	1.00	9.68
ATOM	1891	O	VAL	243	1.340	47.627	34.591	1.00	7.52
ATOM	1892	N	PRO	244	2.071	47.256	32.488	1.00	2.00
ATOM	1893	CD	PRO	244	2.811	47.746	31.319	1.00	2.00
ATOM	1894	CA	PRO	244	1.851	45.807	32.367	1.00	7.13
ATOM	1895	CB	PRO	244	2.478	45.476	31.013	1.00	3.14
ATOM	1896	CG	PRO	244	3.517	46.509	30.869	1.00	2.11
ATOM	1897	C	PRO	244	2.295	44.828	33.453	1.00	12.88
ATOM	1898	O	PRO	244	1.663	43.776	33.626	1.00	11.68
ATOM	1899	N	ARG	245	3.383	45.143	34.156	1.00	10.82
ATOM	1900	CA	ARG	245	3.882	44.272	35.213	1.00	7.00
ATOM	1901	CB	ARG	245	5.388	44.049	35.076	1.00	2.00
ATOM	1902	CG	ARG	245	5.733	43.029	34.001	1.00	3.83
ATOM	1903	CD	ARG	245	7.193	42.611	34.062	1.00	3.36
ATOM	1904	NE	ARG	245	7.539	42.056	35.365	1.00	2.00
ATOM	1905	CZ	ARG	245	7.793	40.773	35.587	1.00	2.00
ATOM	1906	NH1	ARG	245	7.752	39.891	34.600	1.00	2.00
ATOM	1907	NH2	ARG	245	8.070	40.369	36.811	1.00	2.33
ATOM	1908	C	ARG	245	3.521	44.751	36.613	1.00	10.50
ATOM	1909	O	ARG	245	3.931	44.151	37.605	1.00	19.87
ATOM	1910	N	ALA	246	2.720	45.808	36.691	1.00	6.93
ATOM	1911	CA	ALA	246	2.289	46.346	37.973	1.00	10.42
ATOM	1912	CB	ALA	246	1.409	47.555	37.768	1.00	24.15
ATOM	1913	C	ALA	246	1.542	45.279	38.760	1.00	12.45
ATOM	1914	O	ALA	246	1.157	44.234	38.208	1.00	7.10
ATOM	1915	N	ALA	247	1.280	45.591	40.032	1.00	9.91
ATOM	1916	CA	ALA	247	0.633	44.671	40.969	1.00	7.42
ATOM	1917	CB	ALA	247	-0.722	44.295	40.489	1.00	3.11
ATOM	1918	C	ALA	247	1.548	43.447	41.046	1.00	15.65
ATOM	1919	O	ALA	247	2.588	43.474	41.714	1.00	24.00
ATOM	1920	N	ARG	248	1.185	42.381	40.351	1.00	14.66
ATOM	1921	CA	ARG	248	2.016	41.184	40.327	1.00	23.44
ATOM	1922	CB	ARG	248	1.618	40.179	41.419	1.00	32.08
ATOM	1923	CG	ARG	248	1.393	40.739	42.841	1.00	44.52
ATOM	1924	CD	ARG	248	-0.098	41.029	43.134	1.00	49.23
ATOM	1925	NE	ARG	248	-0.970	39.908	42.755	1.00	55.41
ATOM	1926	CZ	ARG	248	-2.248	39.782	43.105	1.00	53.56
ATOM	1927	NH1	ARG	248	-2.825	40.706	43.862	1.00	57.59
ATOM	1928	NH2	ARG	248	-2.964	38.752	42.656	1.00	49.39
ATOM	1929	C	ARG	248	1.678	40.621	38.971	1.00	23.59
ATOM	1930	O	ARG	248	0.900	39.675	38.867	1.00	29.14
ATOM	1931	N	THR	249	2.222	41.245	37.930	1.00	13.61
ATOM	1932	CA	THR	249	1.944	40.845	36.558	1.00	11.70
ATOM	1933	CB	THR	249	2.526	39.449	36.193	1.00	10.70

ATOM	1934	OG1	THR	249	2.333	38.514	37.262	1.00	21.83
ATOM	1935	CG2	THR	249	3.985	39.569	35.917	1.00	12.83
ATOM	1936	C	THR	249	0.443	40.947	36.259	1.00	11.98
ATOM	1937	O	THR	249	-0.041	40.498	35.211	1.00	7.19
ATOM	1938	N	LEU	250	-0.283	41.551	37.202	1.00	8.53
ATOM	1939	CA	LEU	250	-1.716	41.790	37.063	1.00	10.21
ATOM	1940	CB	LEU	250	-2.317	42.267	38.392	1.00	5.30
ATOM	1941	CG	LEU	250	-3.124	41.367	39.329	1.00	2.00
ATOM	1942	CD1	LEU	250	-3.513	42.153	40.538	1.00	2.00
ATOM	1943	CD2	LEU	250	-4.371	40.879	38.660	1.00	2.03
ATOM	1944	C	LEU	250	-1.816	42.931	36.048	1.00	12.08
ATOM	1945	O	LEU	250	-2.636	42.902	35.116	1.00	10.84
ATOM	1946	N	GLY	251	-0.950	43.925	36.235	1.00	3.20
ATOM	1947	CA	GLY	251	-0.937	45.063	35.345	1.00	5.54
ATOM	1948	C	GLY	251	-1.822	46.172	35.854	1.00	6.97
ATOM	1949	O	GLY	251	-2.739	45.940	36.647	1.00	9.69
ATOM	1950	N	MET	252	-1.533	47.387	35.400	1.00	2.00
ATOM	1951	CA	MET	252	-2.284	48.567	35.792	1.00	2.00
ATOM	1952	CB	MET	252	-1.714	49.149	37.085	1.00	2.00
ATOM	1953	CG	MET	252	-2.141	48.470	38.361	1.00	5.65
ATOM	1954	SD	MET	252	-1.458	49.310	39.809	1.00	20.04
ATOM	1955	CE	MET	252	-2.509	50.766	39.890	1.00	10.24
ATOM	1956	C	MET	252	-2.124	49.614	34.715	1.00	2.00
ATOM	1957	O	MET	252	-1.252	49.496	33.866	1.00	2.00
ATOM	1958	N	VAL	253	-2.989	50.619	34.716	1.00	4.30
ATOM	1959	CA	VAL	253	-2.844	51.720	33.761	1.00	14.05
ATOM	1960	CB	VAL	253	-3.843	51.642	32.596	1.00	11.18
ATOM	1961	CG1	VAL	253	-3.634	52.829	31.666	1.00	4.15
ATOM	1962	CG2	VAL	253	-3.644	50.343	31.831	1.00	3.13
ATOM	1963	C	VAL	253	-2.963	53.062	34.500	1.00	18.34
ATOM	1964	O	VAL	253	-4.040	53.423	34.981	1.00	23.40
ATOM	1965	N	TYR	254	-1.837	53.766	34.624	1.00	17.99
ATOM	1966	CA	TYR	254	-1.782	55.050	35.319	1.00	16.49
ATOM	1967	CB	TYR	254	-0.367	55.364	35.776	1.00	17.85
ATOM	1968	CG	TYR	254	0.209	54.422	36.790	1.00	20.13
ATOM	1969	CD1	TYR	254	-0.604	53.564	37.529	1.00	19.38
ATOM	1970	CE1	TYR	254	-0.047	52.682	38.460	1.00	21.17
ATOM	1971	CD2	TYR	254	1.583	54.382	37.004	1.00	17.01
ATOM	1972	CE2	TYR	254	2.144	53.509	37.926	1.00	17.54
ATOM	1973	CZ	TYR	254	1.332	52.665	38.649	1.00	14.65
ATOM	1974	OH	TYR	254	1.909	51.801	39.548	1.00	10.82
ATOM	1975	C	TYR	254	-2.222	56.219	34.477	1.00	19.09
ATOM	1976	O	TYR	254	-1.932	56.278	33.278	1.00	18.92
ATOM	1977	N	ILE	255	-2.859	57.178	35.145	1.00	20.95
ATOM	1978	CA	ILE	255	-3.335	58.403	34.519	1.00	17.29
ATOM	1979	CB	ILE	255	-4.856	58.427	34.399	1.00	10.59
ATOM	1980	CG2	ILE	255	-5.314	59.808	33.970	1.00	22.18
ATOM	1981	CG1	ILE	255	-5.302	57.377	33.376	1.00	14.73
ATOM	1982	CD1	ILE	255	-6.787	57.327	33.118	1.00	14.67
ATOM	1983	C	ILE	255	-2.865	59.583	35.354	1.00	19.24
ATOM	1984	O	ILE	255	-3.223	59.706	36.521	1.00	23.10
ATOM	1985	N	TYR	256	-2.034	60.429	34.756	1.00	22.18
ATOM	1986	CA	TYR	256	-1.486	61.591	35.446	1.00	26.87
ATOM	1987	CB	TYR	256	0.041	61.605	35.341	1.00	22.56
ATOM	1988	CG	TYR	256	0.755	60.465	36.027	1.00	24.47
ATOM	1989	CD1	TYR	256	0.708	59.167	35.520	1.00	26.95
ATOM	1990	CE1	TYR	256	1.391	58.123	36.143	1.00	18.58

ATOM	1991	CD2	TYR	256	1.503	60.688	37.173	1.00	24.66
ATOM	1992	CE2	TYR	256	2.186	59.654	37.803	1.00	22.39
ATOM	1993	CZ	TYR	256	2.122	58.378	37.287	1.00	20.04
ATOM	1994	OH	TYR	256	2.776	57.362	37.943	1.00	24.82
ATOM	1995	C	TYR	256	-2.015	62.936	34.941	1.00	33.32
ATOM	1996	O	TYR	256	-2.619	63.042	33.865	1.00	36.41
ATOM	1997	N	ASP	257	-1.710	63.968	35.719	1.00	34.04
ATOM	1998	CA	ASP	257	-2.090	65.351	35.451	1.00	33.06
ATOM	1999	CB	ASP	257	-1.827	66.167	36.726	1.00	34.56
ATOM	2000	CG	ASP	257	-2.587	67.477	36.775	1.00	34.37
ATOM	2001	OD1	ASP	257	-3.153	67.772	37.853	1.00	38.55
ATOM	2002	OD2	ASP	257	-2.597	68.222	35.772	1.00	26.79
ATOM	2003	C	ASP	257	-1.215	65.893	34.321	1.00	31.50
ATOM	2004	O	ASP	257	-0.035	65.561	34.238	1.00	33.49
ATOM	2005	N	GLY	258	-1.796	66.716	33.453	1.00	36.11
ATOM	2006	CA	GLY	258	-1.041	67.319	32.361	1.00	29.04
ATOM	2007	C	GLY	258	-0.278	68.559	32.819	1.00	27.17
ATOM	2008	O	GLY	258	0.559	69.085	32.083	1.00	19.71
ATOM	2009	N	LYS	259	-0.576	69.022	34.037	1.00	27.04
ATOM	2010	CA	LYS	259	0.067	70.198	34.625	1.00	26.06
ATOM	2011	CB	LYS	259	-0.981	71.197	35.144	1.00	33.98
ATOM	2012	CG	LYS	259	-1.892	71.809	34.082	1.00	49.25
ATOM	2013	CD	LYS	259	-1.105	72.340	32.875	1.00	64.17
ATOM	2014	CE	LYS	259	-0.133	73.457	33.255	1.00	72.96
ATOM	2015	NZ	LYS	259	0.702	73.883	32.095	1.00	76.02
ATOM	2016	C	LYS	259	0.998	69.811	35.769	1.00	24.63
ATOM	2017	O	LYS	259	2.203	70.027	35.690	1.00	26.80
ATOM	2018	N	ASN	260	0.425	69.251	36.832	1.00	23.67
ATOM	2019	CA	ASN	260	1.186	68.832	38.005	1.00	24.99
ATOM	2020	CB	ASN	260	0.248	68.471	39.174	1.00	33.22
ATOM	2021	CG	ASN	260	-0.538	69.649	39.723	1.00	43.55
ATOM	2022	OD1	ASN	260	-0.264	70.809	39.419	1.00	56.38
ATOM	2023	ND2	ASN	260	-1.516	69.330	40.568	1.00	50.60
ATOM	2024	C	ASN	260	2.002	67.570	37.735	1.00	30.09
ATOM	2025	O	ASN	260	3.097	67.414	38.263	1.00	30.35
ATOM	2026	N	MET	261	1.439	66.672	36.922	1.00	33.77
ATOM	2027	CA	MET	261	2.011	65.351	36.614	1.00	30.74
ATOM	2028	CB	MET	261	3.516	65.422	36.293	1.00	27.83
ATOM	2029	CG	MET	261	4.231	64.065	36.109	1.00	29.98
ATOM	2030	SD	MET	261	3.500	62.896	34.929	1.00	24.43
ATOM	2031	CE	MET	261	4.640	62.986	33.621	1.00	25.29
ATOM	2032	C	MET	261	1.698	64.496	37.860	1.00	29.79
ATOM	2033	O	MET	261	2.402	63.541	38.196	1.00	29.88
ATOM	2034	N	SER	262	0.607	64.877	38.529	1.00	29.81
ATOM	2035	CA	SER	262	0.102	64.230	39.739	1.00	31.35
ATOM	2036	CB	SER	262	-0.636	65.259	40.605	1.00	32.40
ATOM	2037	OG	SER	262	-1.632	65.950	39.865	1.00	32.05
ATOM	2038	C	SER	262	-0.843	63.082	39.390	1.00	31.33
ATOM	2039	O	SER	262	-1.624	63.185	38.438	1.00	31.33
ATOM	2040	N	SER	263	-0.801	62.004	40.170	1.00	22.00
ATOM	2041	CA	SER	263	-1.664	60.867	39.875	1.00	27.60
ATOM	2042	CB	SER	263	-1.335	59.663	40.768	1.00	31.24
ATOM	2043	OG	SER	263	-1.663	58.440	40.120	1.00	38.49
ATOM	2044	C	SER	263	-3.140	61.256	39.971	1.00	25.18
ATOM	2045	O	SER	263	-3.570	61.924	40.909	1.00	24.06
ATOM	2046	N	LEU	264	-3.887	60.903	38.934	1.00	24.14
ATOM	2047	CA	LEU	264	-5.304	61.197	38.861	1.00	23.65

ATOM	2048	CB	LEU	264	-5.636	61.761	37.484	1.00	26.71
ATOM	2049	CG	LEU	264	-6.319	63.123	37.338	1.00	28.01
ATOM	2050	CD1	LEU	264	-5.531	64.217	38.043	1.00	32.00
ATOM	2051	CD2	LEU	264	-6.433	63.430	35.858	1.00	22.51
ATOM	2052	C	LEU	264	-6.071	59.906	39.085	1.00	29.37
ATOM	2053	O	LEU	264	-6.790	59.771	40.076	1.00	35.11
ATOM	2054	N	TYR	265	-5.885	58.941	38.180	1.00	34.25
ATOM	2055	CA	TYR	265	-6.572	57.647	38.266	1.00	36.01
ATOM	2056	CB	TYR	265	-7.770	57.611	37.294	1.00	36.98
ATOM	2057	CG	TYR	265	-8.744	58.763	37.499	1.00	50.68
ATOM	2058	CD1	TYR	265	-9.659	58.759	38.562	1.00	59.81
ATOM	2059	CE1	TYR	265	-10.521	59.847	38.792	1.00	60.58
ATOM	2060	CD2	TYR	265	-8.717	59.886	36.666	1.00	56.08
ATOM	2061	CE2	TYR	265	-9.572	60.979	36.886	1.00	60.63
ATOM	2062	CZ	TYR	265	-10.466	60.951	37.950	1.00	62.36
ATOM	2063	OH	TYR	265	-11.288	62.034	38.174	1.00	65.44
ATOM	2064	C	TYR	265	-5.666	56.423	38.047	1.00	31.59
ATOM	2065	O	TYR	265	-4.498	56.543	37.663	1.00	31.07
ATOM	2066	N	ASN	266	-6.223	55.253	38.335	1.00	25.49
ATOM	2067	CA	ASN	266	-5.534	53.975	38.191	1.00	24.57
ATOM	2068	CB	ASN	266	-4.905	53.524	39.512	1.00	28.11
ATOM	2069	CG	ASN	266	-3.646	54.282	39.863	1.00	32.74
ATOM	2070	OD1	ASN	266	-2.987	54.872	38.996	1.00	39.46
ATOM	2071	ND2	ASN	266	-3.306	54.243	41.152	1.00	27.16
ATOM	2072	C	ASN	266	-6.524	52.897	37.772	1.00	24.54
ATOM	2073	O	ASN	266	-7.713	52.936	38.111	1.00	29.00
ATOM	2074	N	PHE	267	-6.019	51.936	37.017	1.00	18.71
ATOM	2075	CA	PHE	267	-6.813	50.814	36.553	1.00	15.28
ATOM	2076	CB	PHE	267	-7.016	50.888	35.050	1.00	16.02
ATOM	2077	CG	PHE	267	-7.892	52.017	34.604	1.00	15.49
ATOM	2078	CD1	PHE	267	-7.623	53.321	34.984	1.00	16.36
ATOM	2079	CD2	PHE	267	-8.971	51.774	33.766	1.00	17.46
ATOM	2080	CE1	PHE	267	-8.411	54.370	34.542	1.00	21.46
ATOM	2081	CE2	PHE	267	-9.768	52.812	33.314	1.00	19.76
ATOM	2082	CZ	PHE	267	-9.487	54.116	33.702	1.00	22.98
ATOM	2083	C	PHE	267	-5.968	49.604	36.866	1.00	15.58
ATOM	2084	O	PHE	267	-4.749	49.707	36.931	1.00	22.78
ATOM	2085	N	THR	268	-6.594	48.460	37.082	1.00	12.33
ATOM	2086	CA	THR	268	-5.808	47.275	37.372	1.00	17.27
ATOM	2087	CB	THR	268	-5.769	46.954	38.882	1.00	12.92
ATOM	2088	OG1	THR	268	-5.330	48.114	39.602	1.00	12.52
ATOM	2089	CG2	THR	268	-4.803	45.812	39.157	1.00	2.00
ATOM	2090	C	THR	268	-6.322	46.078	36.610	1.00	18.74
ATOM	2091	O	THR	268	-7.518	45.957	36.348	1.00	18.24
ATOM	2092	N	GLY	269	-5.395	45.231	36.188	1.00	23.43
ATOM	2093	CA	GLY	269	-5.784	44.037	35.474	1.00	27.46
ATOM	2094	C	GLY	269	-6.547	43.178	36.452	1.00	31.13
ATOM	2095	O	GLY	269	-6.565	43.460	37.657	1.00	35.73
ATOM	2096	N	GLU	270	-7.204	42.147	35.942	1.00	33.05
ATOM	2097	CA	GLU	270	-7.967	41.248	36.797	1.00	31.62
ATOM	2098	CB	GLU	270	-9.392	41.086	36.242	1.00	39.52
ATOM	2099	CG	GLU	270	-10.524	41.196	37.276	1.00	45.83
ATOM	2100	CD	GLU	270	-10.746	42.614	37.788	1.00	45.79
ATOM	2101	OE1	GLU	270	-11.115	43.493	36.974	1.00	44.59
ATOM	2102	OE2	GLU	270	-10.574	42.839	39.006	1.00	51.68
ATOM	2103	C	GLU	270	-7.242	39.900	36.844	1.00	23.30
ATOM	2104	O	GLU	270	-7.325	39.177	37.833	1.00	19.45

ATOM	2105	N	GLN	271	-6.485	39.602	35.792	1.00	17.37
ATOM	2106	CA	GLN	271	-5.743	38.347	35.696	1.00	18.78
ATOM	2107	CB	GLN	271	-6.304	37.515	34.539	1.00	18.22
ATOM	2108	CG	GLN	271	-5.391	36.403	34.057	1.00	13.80
ATOM	2109	CD	GLN	271	-6.061	35.521	33.041	1.00	14.04
ATOM	2110	OE1	GLN	271	-7.169	35.035	33.270	1.00	27.28
ATOM	2111	NE2	GLN	271	-5.397	35.299	31.914	1.00	7.83
ATOM	2112	C	GLN	271	-4.248	38.565	35.493	1.00	18.88
ATOM	2113	O	GLN	271	-3.848	39.386	34.660	1.00	25.58
ATOM	2114	N	MET	272	-3.432	37.790	36.212	1.00	15.26
ATOM	2115	CA	MET	272	-1.972	37.902	36.120	1.00	10.95
ATOM	2116	CB	MET	272	-1.282	37.044	37.172	1.00	2.00
ATOM	2117	CG	MET	272	-1.716	37.279	38.581	1.00	5.53
ATOM	2118	SD	MET	272	-0.559	36.452	39.680	1.00	12.02
ATOM	2119	CE	MET	272	-0.836	37.372	41.102	1.00	6.00
ATOM	2120	C	MET	272	-1.427	37.475	34.766	1.00	12.31
ATOM	2121	O	MET	272	-2.064	36.710	34.033	1.00	8.43
ATOM	2122	N	ALA	273	-0.229	37.963	34.461	1.00	8.00
ATOM	2123	CA	ALA	273	0.475	37.652	33.225	1.00	8.26
ATOM	2124	CB	ALA	273	0.931	36.187	33.239	1.00	2.00
ATOM	2125	C	ALA	273	-0.273	37.962	31.927	1.00	12.77
ATOM	2126	O	ALA	273	0.234	37.641	30.838	1.00	13.93
ATOM	2127	N	ALA	274	-1.440	38.615	32.041	1.00	14.54
ATOM	2128	CA	ALA	274	-2.295	38.967	30.887	1.00	12.96
ATOM	2129	CB	ALA	274	-3.727	39.265	31.356	1.00	2.00
ATOM	2130	C	ALA	274	-1.765	40.127	30.032	1.00	13.72
ATOM	2131	O	ALA	274	-2.062	40.227	28.834	1.00	14.51
ATOM	2132	N	TYR	275	-0.964	40.978	30.665	1.00	9.77
ATOM	2133	CA	TYR	275	-0.375	42.151	30.040	1.00	8.88
ATOM	2134	CB	TYR	275	0.372	41.811	28.752	1.00	4.98
ATOM	2135	CG	TYR	275	1.836	42.133	28.888	1.00	9.13
ATOM	2136	CD1	TYR	275	2.639	41.405	29.768	1.00	8.66
ATOM	2137	CE1	TYR	275	3.973	41.705	29.938	1.00	4.95
ATOM	2138	CD2	TYR	275	2.413	43.180	28.181	1.00	2.00
ATOM	2139	CE2	TYR	275	3.755	43.486	28.344	1.00	2.86
ATOM	2140	CZ	TYR	275	4.530	42.739	29.225	1.00	8.11
ATOM	2141	OH	TYR	275	5.875	42.989	29.369	1.00	19.61
ATOM	2142	C	TYR	275	-1.337	43.297	29.820	1.00	9.74
ATOM	2143	O	TYR	275	-1.346	43.921	28.761	1.00	12.18
ATOM	2144	N	PHE	276	-2.141	43.561	30.842	1.00	10.28
ATOM	2145	CA	PHE	276	-3.110	44.646	30.843	1.00	9.01
ATOM	2146	CB	PHE	276	-3.903	44.556	32.139	1.00	9.92
ATOM	2147	CG	PHE	276	-4.770	45.744	32.428	1.00	7.88
ATOM	2148	CD1	PHE	276	-6.059	45.818	31.923	1.00	10.16
ATOM	2149	CD2	PHE	276	-4.335	46.736	33.294	1.00	11.00
ATOM	2150	CE1	PHE	276	-6.898	46.851	32.289	1.00	10.98
ATOM	2151	CE2	PHE	276	-5.169	47.773	33.663	1.00	16.18
ATOM	2152	CZ	PHE	276	-6.453	47.830	33.159	1.00	16.76
ATOM	2153	C	PHE	276	-2.285	45.928	30.804	1.00	12.96
ATOM	2154	O	PHE	276	-1.640	46.289	31.788	1.00	14.54
ATOM	2155	N	GLY	277	-2.250	46.577	29.648	1.00	12.72
ATOM	2156	CA	GLY	277	-1.464	47.791	29.517	1.00	15.70
ATOM	2157	C	GLY	277	-0.446	47.754	28.384	1.00	17.98
ATOM	2158	O	GLY	277	0.317	48.706	28.212	1.00	25.70
ATOM	2159	N	PHE	278	-0.410	46.651	27.631	1.00	16.77
ATOM	2160	CA	PHE	278	0.508	46.505	26.496	1.00	12.44
ATOM	2161	CB	PHE	278	0.294	45.150	25.808	1.00	2.00

ATOM	2162	CG	PHE	278	1.170	44.921	24.611	1.00	2.00
ATOM	2163	CD1	PHE	278	2.498	44.534	24.765	1.00	2.00
ATOM	2164	CD2	PHE	278	0.657	45.048	23.323	1.00	2.00
ATOM	2165	CE1	PHE	278	3.312	44.271	23.650	1.00	2.00
ATOM	2166	CE2	PHE	278	1.464	44.786	22.191	1.00	2.00
ATOM	2167	CZ	PHE	278	2.796	44.395	22.365	1.00	2.00
ATOM	2168	C	PHE	278	0.184	47.631	25.532	1.00	16.05
ATOM	2169	O	PHE	278	1.078	48.260	24.961	1.00	20.18
ATOM	2170	N	SER	279	-1.109	47.901	25.391	1.00	14.73
ATOM	2171	CA	SER	279	-1.579	48.955	24.520	1.00	10.48
ATOM	2172	CB	SER	279	-2.042	48.377	23.196	1.00	11.60
ATOM	2173	OG	SER	279	-2.091	49.415	22.238	1.00	33.57
ATOM	2174	C	SER	279	-2.718	49.709	25.169	1.00	8.19
ATOM	2175	O	SER	279	-3.658	49.112	25.665	1.00	10.59
ATOM	2176	N	VAL	280	-2.599	51.032	25.201	1.00	10.77
ATOM	2177	CA	VAL	280	-3.625	51.900	25.769	1.00	4.92
ATOM	2178	CB	VAL	280	-3.142	52.608	27.063	1.00	2.00
ATOM	2179	CG1	VAL	280	-2.463	51.620	27.978	1.00	2.00
ATOM	2180	CG2	VAL	280	-2.210	53.758	26.745	1.00	2.00
ATOM	2181	C	VAL	280	-3.974	52.930	24.693	1.00	2.00
ATOM	2182	O	VAL	280	-3.217	53.097	23.730	1.00	2.00
ATOM	2183	N	ALA	281	-5.131	53.577	24.842	1.00	2.00
ATOM	2184	CA	ALA	281	-5.612	54.579	23.893	1.00	6.20
ATOM	2185	CB	ALA	281	-5.982	53.927	22.573	1.00	4.76
ATOM	2186	C	ALA	281	-6.824	55.302	24.458	1.00	14.28
ATOM	2187	O	ALA	281	-7.712	54.679	25.039	1.00	19.95
ATOM	2188	N	ALA	282	-6.858	56.618	24.286	1.00	15.99
ATOM	2189	CA	ALA	282	-7.973	57.425	24.765	1.00	12.44
ATOM	2190	CB	ALA	282	-7.484	58.489	25.714	1.00	15.34
ATOM	2191	C	ALA	282	-8.674	58.056	23.567	1.00	13.85
ATOM	2192	O	ALA	282	-8.026	58.585	22.661	1.00	12.04
ATOM	2193	N	THR	283	-9.999	57.973	23.564	1.00	15.30
ATOM	2194	CA	THR	283	-10.820	58.506	22.480	1.00	20.32
ATOM	2195	CB	THR	283	-10.876	57.491	21.278	1.00	23.24
ATOM	2196	OG1	THR	283	-9.643	57.535	20.559	1.00	30.04
ATOM	2197	CG2	THR	283	-11.999	57.809	20.305	1.00	23.24
ATOM	2198	C	THR	283	-12.218	58.707	23.036	1.00	22.19
ATOM	2199	O	THR	283	-12.554	58.136	24.078	1.00	19.12
ATOM	2200	N	ASP	284	-12.996	59.577	22.390	1.00	28.11
ATOM	2201	CA	ASP	284	-14.382	59.820	22.792	1.00	29.67
ATOM	2202	CB	ASP	284	-14.748	61.297	22.748	1.00	35.99
ATOM	2203	CG	ASP	284	-16.205	61.532	23.076	1.00	38.70
ATOM	2204	OD1	ASP	284	-16.795	62.453	22.477	1.00	43.48
ATOM	2205	OD2	ASP	284	-16.758	60.777	23.912	1.00	28.46
ATOM	2206	C	ASP	284	-15.263	59.040	21.835	1.00	26.25
ATOM	2207	O	ASP	284	-15.668	59.527	20.783	1.00	24.34
ATOM	2208	N	ILE	285	-15.596	57.832	22.268	1.00	31.70
ATOM	2209	CA	ILE	285	-16.376	56.867	21.506	1.00	27.86
ATOM	2210	CB	ILE	285	-16.001	55.454	22.013	1.00	12.89
ATOM	2211	CG2	ILE	285	-16.827	55.097	23.252	1.00	4.92
ATOM	2212	CG1	ILE	285	-16.030	54.448	20.864	1.00	5.22
ATOM	2213	CD1	ILE	285	-14.969	54.703	19.799	1.00	2.00
ATOM	2214	C	ILE	285	-17.907	57.054	21.482	1.00	28.68
ATOM	2215	O	ILE	285	-18.593	56.486	20.624	1.00	28.73
ATOM	2216	N	ASN	286	-18.432	57.877	22.386	1.00	27.96
ATOM	2217	CA	ASN	286	-19.873	58.105	22.457	1.00	27.08
ATOM	2218	CB	ASN	286	-20.408	57.574	23.788	1.00	17.37

ATOM	2219	CG	ASN	286	-19.802	58.289	24.985	1.00	13.28
ATOM	2220	OD1	ASN	286	-18.955	59.166	24.839	1.00	15.57
ATOM	2221	ND2	ASN	286	-20.237	57.916	26.175	1.00	11.52
ATOM	2222	C	ASN	286	-20.316	59.567	22.260	1.00	31.27
ATOM	2223	O	ASN	286	-21.257	60.023	22.918	1.00	33.02
ATOM	2224	N	GLY	287	-19.622	60.293	21.381	1.00	33.88
ATOM	2225	CA	GLY	287	-19.954	61.683	21.086	1.00	37.51
ATOM	2226	C	GLY	287	-20.447	62.604	22.203	1.00	40.21
ATOM	2227	O	GLY	287	-21.274	63.492	21.954	1.00	39.45
ATOM	2228	N	ASP	288	-19.960	62.403	23.427	1.00	39.98
ATOM	2229	CA	ASP	288	-20.359	63.245	24.554	1.00	42.04
ATOM	2230	CB	ASP	288	-20.734	62.384	25.763	1.00	42.09
ATOM	2231	CG	ASP	288	-19.525	61.818	26.484	1.00	39.50
ATOM	2232	OD1	ASP	288	-19.654	61.497	27.686	1.00	36.13
ATOM	2233	OD2	ASP	288	-18.453	61.695	25.860	1.00	36.53
ATOM	2234	C	ASP	288	-19.218	64.190	24.922	1.00	45.40
ATOM	2235	O	ASP	288	-19.257	64.867	25.947	1.00	49.51
ATOM	2236	N	ASP	289	-18.181	64.168	24.096	1.00	47.13
ATOM	2237	CA	ASP	289	-16.993	64.987	24.273	1.00	49.10
ATOM	2238	CB	ASP	289	-17.298	66.469	24.047	1.00	61.84
ATOM	2239	CG	ASP	289	-16.070	67.246	23.598	1.00	75.61
ATOM	2240	OD1	ASP	289	-15.392	66.793	22.647	1.00	83.37
ATOM	2241	OD2	ASP	289	-15.773	68.300	24.206	1.00	82.67
ATOM	2242	C	ASP	289	-16.298	64.753	25.610	1.00	44.79
ATOM	2243	O	ASP	289	-16.022	65.683	26.367	1.00	43.51
ATOM	2244	N	TYR	290	-16.057	63.477	25.891	1.00	43.43
ATOM	2245	CA	TYR	290	-15.367	63.025	27.092	1.00	35.70
ATOM	2246	CB	TYR	290	-16.346	62.593	28.174	1.00	36.01
ATOM	2247	CG	TYR	290	-16.799	63.697	29.094	1.00	44.92
ATOM	2248	CD1	TYR	290	-18.026	63.612	29.752	1.00	56.33
ATOM	2249	CE1	TYR	290	-18.429	64.581	30.675	1.00	57.63
ATOM	2250	CD2	TYR	290	-15.981	64.791	29.372	1.00	48.58
ATOM	2251	CE2	TYR	290	-16.375	65.771	30.293	1.00	53.94
ATOM	2252	CZ	TYR	290	-17.602	65.653	30.945	1.00	57.14
ATOM	2253	OH	TYR	290	-17.995	66.578	31.889	1.00	58.42
ATOM	2254	C	TYR	290	-14.525	61.835	26.657	1.00	31.16
ATOM	2255	O	TYR	290	-15.000	60.929	25.968	1.00	28.85
ATOM	2256	N	ALA	291	-13.260	61.853	27.027	1.00	22.96
ATOM	2257	CA	ALA	291	-12.379	60.779	26.641	1.00	19.13
ATOM	2258	CB	ALA	291	-10.949	61.162	26.908	1.00	28.17
ATOM	2259	C	ALA	291	-12.714	59.462	27.324	1.00	16.45
ATOM	2260	O	ALA	291	-13.099	59.415	28.492	1.00	2.47
ATOM	2261	N	ASP	292	-12.556	58.393	26.560	1.00	17.03
ATOM	2262	CA	ASP	292	-12.808	57.050	27.030	1.00	17.76
ATOM	2263	CB	ASP	292	-13.879	56.420	26.156	1.00	17.07
ATOM	2264	CG	ASP	292	-15.147	57.222	26.156	1.00	12.04
ATOM	2265	OD1	ASP	292	-15.450	57.864	25.133	1.00	2.18
ATOM	2266	OD2	ASP	292	-15.818	57.235	27.208	1.00	18.95
ATOM	2267	C	ASP	292	-11.497	56.274	26.943	1.00	20.12
ATOM	2268	O	ASP	292	-10.802	56.336	25.924	1.00	17.01
ATOM	2269	N	VAL	293	-11.143	55.588	28.028	1.00	19.04
ATOM	2270	CA	VAL	293	-9.898	54.826	28.083	1.00	17.37
ATOM	2271	CB	VAL	293	-9.299	54.768	29.499	1.00	10.10
ATOM	2272	CG1	VAL	293	-7.894	54.222	29.420	1.00	21.22
ATOM	2273	CG2	VAL	293	-9.293	56.125	30.146	1.00	2.00
ATOM	2274	C	VAL	293	-10.071	53.394	27.620	1.00	17.42
ATOM	2275	O	VAL	293	-10.999	52.704	28.023	1.00	23.02

ATOM	2276	N	PHE	294	-9.129	52.938	26.814	1.00	16.41
ATOM	2277	CA	PHE	294	-9.171	51.588	26.289	1.00	20.65
ATOM	2278	CB	PHE	294	-9.360	51.630	24.776	1.00	21.94
ATOM	2279	CG	PHE	294	-10.626	52.309	24.340	1.00	24.45
ATOM	2280	CD1	PHE	294	-10.860	53.641	24.648	1.00	21.71
ATOM	2281	CD2	PHE	294	-11.577	51.618	23.597	1.00	28.93
ATOM	2282	CE1	PHE	294	-12.022	54.279	24.224	1.00	27.33
ATOM	2283	CE2	PHE	294	-12.742	52.247	23.167	1.00	30.11
ATOM	2284	CZ	PHE	294	-12.966	53.583	23.483	1.00	25.68
ATOM	2285	C	PHE	294	-7.862	50.892	26.609	1.00	15.87
ATOM	2286	O	PHE	294	-6.811	51.349	26.173	1.00	23.16
ATOM	2287	N	ILE	295	-7.913	49.806	27.374	1.00	11.15
ATOM	2288	CA	ILE	295	-6.690	49.085	27.713	1.00	5.22
ATOM	2289	CB	ILE	295	-6.502	48.920	29.243	1.00	6.73
ATOM	2290	CG2	ILE	295	-5.087	48.425	29.535	1.00	5.69
ATOM	2291	CG1	ILE	295	-6.742	50.247	29.987	1.00	7.90
ATOM	2292	CD1	ILE	295	-8.213	50.635	30.145	1.00	7.85
ATOM	2293	C	ILE	295	-6.662	47.716	27.030	1.00	6.83
ATOM	2294	O	ILE	295	-7.709	47.151	26.722	1.00	13.74
ATOM	2295	N	GLY	296	-5.465	47.192	26.795	1.00	2.00
ATOM	2296	CA	GLY	296	-5.340	45.914	26.122	1.00	2.00
ATOM	2297	C	GLY	296	-4.531	44.845	26.838	1.00	8.89
ATOM	2298	O	GLY	296	-3.410	45.087	27.281	1.00	8.34
ATOM	2299	N	ALA	297	-5.134	43.662	26.967	1.00	15.56
ATOM	2300	CA	ALA	297	-4.532	42.488	27.598	1.00	5.70
ATOM	2301	CB	ALA	297	-5.362	42.047	28.788	1.00	2.00
ATOM	2302	C	ALA	297	-4.554	41.431	26.501	1.00	3.72
ATOM	2303	O	ALA	297	-5.501	40.666	26.384	1.00	2.00
ATOM	2304	N	PRO	298	-3.519	41.416	25.647	1.00	8.14
ATOM	2305	CD	PRO	298	-2.334	42.285	25.717	1.00	2.00
ATOM	2306	CA	PRO	298	-3.391	40.476	24.530	1.00	11.05
ATOM	2307	CB	PRO	298	-2.080	40.922	23.863	1.00	6.78
ATOM	2308	CG	PRO	298	-1.910	42.328	24.293	1.00	2.00
ATOM	2309	C	PRO	298	-3.314	39.016	24.968	1.00	11.25
ATOM	2310	O	PRO	298	-3.576	38.091	24.189	1.00	12.04
ATOM	2311	N	LEU	299	-2.952	38.810	26.223	1.00	7.15
ATOM	2312	CA	LEU	299	-2.812	37.458	26.741	1.00	12.81
ATOM	2313	CB	LEU	299	-1.433	37.312	27.398	1.00	7.95
ATOM	2314	CG	LEU	299	-0.209	36.991	26.541	1.00	2.00
ATOM	2315	CD1	LEU	299	-0.272	37.625	25.186	1.00	2.00
ATOM	2316	CD2	LEU	299	1.017	37.410	27.285	1.00	2.00
ATOM	2317	C	LEU	299	-3.906	37.027	27.720	1.00	9.85
ATOM	2318	O	LEU	299	-3.758	36.015	28.392	1.00	12.86
ATOM	2319	N	PHE	300	-5.009	37.767	27.772	1.00	6.39
ATOM	2320	CA	PHE	300	-6.086	37.454	28.694	1.00	2.38
ATOM	2321	CB	PHE	300	-7.215	38.460	28.586	1.00	10.09
ATOM	2322	CG	PHE	300	-8.190	38.387	29.723	1.00	12.39
ATOM	2323	CD1	PHE	300	-7.957	39.097	30.903	1.00	9.63
ATOM	2324	CD2	PHE	300	-9.340	37.608	29.624	1.00	12.98
ATOM	2325	CE1	PHE	300	-8.857	39.034	31.969	1.00	7.55
ATOM	2326	CE2	PHE	300	-10.244	37.540	30.684	1.00	12.72
ATOM	2327	CZ	PHE	300	-10.001	38.256	31.862	1.00	9.24
ATOM	2328	C	PHE	300	-6.649	36.089	28.449	1.00	3.65
ATOM	2329	O	PHE	300	-6.761	35.655	27.308	1.00	3.76
ATOM	2330	N	MET	301	-7.010	35.415	29.533	1.00	5.01
ATOM	2331	CA	MET	301	-7.568	34.082	29.434	1.00	5.21
ATOM	2332	CB	MET	301	-6.701	33.062	30.162	1.00	2.00

ATOM	2333	CG	MET	301	-5.432	32.735	29.423	1.00	2.00
ATOM	2334	SD	MET	301	-4.528	31.329	30.066	1.00	15.82
ATOM	2335	CE	MET	301	-4.217	31.833	31.737	1.00	2.00
ATOM	2336	C	MET	301	-8.986	34.007	29.940	1.00	11.24
ATOM	2337	O	MET	301	-9.244	34.230	31.127	1.00	14.57
ATOM	2338	N	ASP	302	-9.914	33.741	29.027	1.00	14.64
ATOM	2339	CA	ASP	302	-11.314	33.614	29.405	1.00	22.97
ATOM	2340	CB	ASP	302	-12.254	34.384	28.446	1.00	20.41
ATOM	2341	CG	ASP	302	-12.256	33.843	27.006	1.00	21.00
ATOM	2342	OD1	ASP	302	-11.637	32.791	26.707	1.00	22.08
ATOM	2343	OD2	ASP	302	-12.909	34.492	26.156	1.00	14.69
ATOM	2344	C	ASP	302	-11.644	32.135	29.443	1.00	28.56
ATOM	2345	O	ASP	302	-10.754	31.300	29.285	1.00	29.49
ATOM	2346	N	ARG	303	-12.903	31.809	29.699	1.00	28.07
ATOM	2347	CA	ARG	303	-13.318	30.420	29.725	1.00	23.11
ATOM	2348	CB	ARG	303	-14.224	30.176	30.914	1.00	25.15
ATOM	2349	CG	ARG	303	-13.531	29.614	32.134	1.00	25.43
ATOM	2350	CD	ARG	303	-12.337	30.430	32.569	1.00	13.85
ATOM	2351	NE	ARG	303	-11.949	30.105	33.941	1.00	24.51
ATOM	2352	CZ	ARG	303	-11.705	28.878	34.406	1.00	22.30
ATOM	2353	NH1	ARG	303	-11.802	27.813	33.624	1.00	30.14
ATOM	2354	NH2	ARG	303	-11.351	28.712	35.671	1.00	28.61
ATOM	2355	C	ARG	303	-14.065	30.114	28.441	1.00	24.45
ATOM	2356	O	ARG	303	-14.926	30.886	28.018	1.00	24.74
ATOM	2357	N	GLY	304	-13.720	29.003	27.803	1.00	24.19
ATOM	2358	CA	GLY	304	-14.405	28.635	26.577	1.00	35.46
ATOM	2359	C	GLY	304	-15.841	28.235	26.872	1.00	39.20
ATOM	2360	O	GLY	304	-16.406	28.633	27.890	1.00	42.95
ATOM	2361	N	SER	305	-16.448	27.460	25.983	1.00	40.16
ATOM	2362	CA	SER	305	-17.819	27.015	26.200	1.00	37.45
ATOM	2363	CB	SER	305	-18.385	26.422	24.914	1.00	45.99
ATOM	2364	OG	SER	305	-19.757	26.110	25.063	1.00	61.50
ATOM	2365	C	SER	305	-17.774	25.950	27.278	1.00	34.62
ATOM	2366	O	SER	305	-18.628	25.895	28.169	1.00	29.45
ATOM	2367	N	ASP	306	-16.732	25.132	27.182	1.00	34.98
ATOM	2368	CA	ASP	306	-16.462	24.030	28.093	1.00	30.04
ATOM	2369	CB	ASP	306	-15.458	23.063	27.452	1.00	39.18
ATOM	2370	CG	ASP	306	-14.148	23.741	27.065	1.00	50.15
ATOM	2371	OD1	ASP	306	-13.083	23.220	27.455	1.00	50.63
ATOM	2372	OD2	ASP	306	-14.177	24.780	26.364	1.00	57.22
ATOM	2373	C	ASP	306	-15.952	24.506	29.442	1.00	19.82
ATOM	2374	O	ASP	306	-15.629	23.699	30.307	1.00	21.70
ATOM	2375	N	GLY	307	-15.835	25.819	29.597	1.00	13.67
ATOM	2376	CA	GLY	307	-15.400	26.383	30.861	1.00	12.91
ATOM	2377	C	GLY	307	-13.948	26.206	31.220	1.00	13.58
ATOM	2378	O	GLY	307	-13.591	26.268	32.388	1.00	6.04
ATOM	2379	N	LYS	308	-13.122	25.985	30.202	1.00	22.73
ATOM	2380	CA	LYS	308	-11.674	25.806	30.346	1.00	23.70
ATOM	2381	CB	LYS	308	-11.239	24.553	29.563	1.00	26.78
ATOM	2382	CG	LYS	308	-9.748	24.448	29.251	1.00	39.21
ATOM	2383	CD	LYS	308	-9.381	23.141	28.536	1.00	44.97
ATOM	2384	CE	LYS	308	-9.398	21.945	29.492	1.00	54.29
ATOM	2385	NZ	LYS	308	-9.122	20.642	28.804	1.00	64.67
ATOM	2386	C	LYS	308	-10.954	27.066	29.820	1.00	27.45
ATOM	2387	O	LYS	308	-11.241	27.535	28.711	1.00	30.16
ATOM	2388	N	LEU	309	-10.034	27.605	30.627	1.00	17.15
ATOM	2389	CA	LEU	309	-9.257	28.806	30.293	1.00	11.32

ATOM	2390	CB	LEU	309	-8.040	28.926	31.204	1.00	2.74
ATOM	2391	CG	LEU	309	-8.274	29.328	32.655	1.00	2.00
ATOM	2392	CD1	LEU	309	-7.071	28.972	33.488	1.00	2.00
ATOM	2393	CD2	LEU	309	-8.581	30.804	32.736	1.00	6.06
ATOM	2394	C	LEU	309	-8.776	28.861	28.856	1.00	18.95
ATOM	2395	O	LEU	309	-8.375	27.841	28.289	1.00	24.90
ATOM	2396	N	GLN	310	-8.784	30.071	28.296	1.00	21.94
ATOM	2397	CA	GLN	310	-8.371	30.332	26.917	1.00	21.50
ATOM	2398	CB	GLN	310	-9.586	30.425	26.010	1.00	15.31
ATOM	2399	CG	GLN	310	-10.161	29.127	25.548	1.00	23.96
ATOM	2400	CD	GLN	310	-11.224	29.362	24.509	1.00	27.32
ATOM	2401	OE1	GLN	310	-11.347	28.606	23.534	1.00	24.91
ATOM	2402	NE2	GLN	310	-11.984	30.444	24.688	1.00	23.75
ATOM	2403	C	GLN	310	-7.643	31.659	26.790	1.00	27.19
ATOM	2404	O	GLN	310	-8.175	32.700	27.171	1.00	28.84
ATOM	2405	N	GLU	311	-6.446	31.633	26.219	1.00	23.55
ATOM	2406	CA	GLU	311	-5.696	32.861	26.022	1.00	16.89
ATOM	2407	CB	GLU	311	-4.186	32.566	26.005	1.00	22.96
ATOM	2408	CG	GLU	311	-3.250	33.782	25.999	1.00	13.75
ATOM	2409	CD	GLU	311	-2.363	33.835	24.755	1.00	17.23
ATOM	2410	OE1	GLU	311	-2.559	34.747	23.920	1.00	26.22
ATOM	2411	OE2	GLU	311	-1.473	32.970	24.602	1.00	11.51
ATOM	2412	C	GLU	311	-6.170	33.399	24.678	1.00	8.86
ATOM	2413	O	GLU	311	-5.712	32.942	23.634	1.00	2.00
ATOM	2414	N	VAL	312	-7.163	34.288	24.716	1.00	7.93
ATOM	2415	CA	VAL	312	-7.715	34.918	23.504	1.00	13.52
ATOM	2416	CB	VAL	312	-9.225	34.604	23.302	1.00	5.68
ATOM	2417	CG1	VAL	312	-9.447	33.126	23.131	1.00	2.00
ATOM	2418	CG2	VAL	312	-10.051	35.165	24.457	1.00	2.17
ATOM	2419	C	VAL	312	-7.550	36.449	23.468	1.00	10.80
ATOM	2420	O	VAL	312	-7.794	37.071	22.433	1.00	7.55
ATOM	2421	N	GLY	313	-7.175	37.043	24.604	1.00	16.12
ATOM	2422	CA	GLY	313	-6.988	38.485	24.695	1.00	15.56
ATOM	2423	C	GLY	313	-8.249	39.228	25.097	1.00	17.89
ATOM	2424	O	GLY	313	-9.351	38.777	24.790	1.00	20.08
ATOM	2425	N	GLN	314	-8.093	40.379	25.752	1.00	17.87
ATOM	2426	CA	GLN	314	-9.240	41.182	26.191	1.00	13.53
ATOM	2427	CB	GLN	314	-9.692	40.718	27.568	1.00	4.63
ATOM	2428	CG	GLN	314	-10.782	41.558	28.169	1.00	10.25
ATOM	2429	CD	GLN	314	-11.241	41.016	29.495	1.00	23.09
ATOM	2430	OE1	GLN	314	-11.237	41.720	30.507	1.00	26.44
ATOM	2431	NE2	GLN	314	-11.637	39.746	29.506	1.00	25.76
ATOM	2432	C	GLN	314	-8.979	42.690	26.233	1.00	14.10
ATOM	2433	O	GLN	314	-7.880	43.129	26.556	1.00	16.51
ATOM	2434	N	VAL	315	-10.006	43.479	25.932	1.00	12.14
ATOM	2435	CA	VAL	315	-9.883	44.935	25.952	1.00	9.46
ATOM	2436	CB	VAL	315	-10.069	45.544	24.558	1.00	6.09
ATOM	2437	CG1	VAL	315	-10.006	47.074	24.629	1.00	4.45
ATOM	2438	CG2	VAL	315	-9.006	45.024	23.640	1.00	7.87
ATOM	2439	C	VAL	315	-10.858	45.615	26.910	1.00	15.64
ATOM	2440	O	VAL	315	-12.079	45.454	26.805	1.00	11.89
ATOM	2441	N	SER	316	-10.302	46.355	27.861	1.00	16.11
ATOM	2442	CA	SER	316	-11.107	47.079	28.826	1.00	17.97
ATOM	2443	CB	SER	316	-10.299	47.339	30.096	1.00	21.34
ATOM	2444	OG	SER	316	-11.019	48.131	31.027	1.00	22.42
ATOM	2445	C	SER	316	-11.518	48.392	28.171	1.00	21.07
ATOM	2446	O	SER	316	-10.681	49.122	27.641	1.00	25.22

ATOM	2447	N	VAL	317	-12.818	48.665	28.185	1.00	16.75
ATOM	2448	CA	VAL	317	-13.367	49.867	27.594	1.00	8.15
ATOM	2449	CB	VAL	317	-14.380	49.489	26.528	1.00	2.00
ATOM	2450	CG1	VAL	317	-14.975	50.729	25.907	1.00	13.95
ATOM	2451	CG2	VAL	317	-13.720	48.637	25.475	1.00	2.00
ATOM	2452	C	VAL	317	-14.052	50.700	28.670	1.00	11.01
ATOM	2453	O	VAL	317	-15.233	50.504	28.956	1.00	13.41
ATOM	2454	N	SER	318	-13.316	51.652	29.238	1.00	13.97
ATOM	2455	CA	SER	318	-13.835	52.512	30.310	1.00	21.24
ATOM	2456	CB	SER	318	-12.744	52.731	31.354	1.00	18.44
ATOM	2457	OG	SER	318	-11.957	51.561	31.500	1.00	21.37
ATOM	2458	C	SER	318	-14.405	53.870	29.866	1.00	26.74
ATOM	2459	O	SER	318	-13.664	54.770	29.449	1.00	21.88
ATOM	2460	N	LEU	319	-15.727	54.018	29.994	1.00	33.02
ATOM	2461	CA	LEU	319	-16.415	55.251	29.616	1.00	34.23
ATOM	2462	CB	LEU	319	-17.872	54.985	29.249	1.00	36.12
ATOM	2463	CG	LEU	319	-18.159	54.414	27.866	1.00	35.58
ATOM	2464	CD1	LEU	319	-17.733	52.960	27.769	1.00	45.82
ATOM	2465	CD2	LEU	319	-19.640	54.539	27.632	1.00	40.10
ATOM	2466	C	LEU	319	-16.376	56.275	30.723	1.00	37.28
ATOM	2467	O	LEU	319	-16.754	55.993	31.857	1.00	40.28
ATOM	2468	N	GLN	320	-15.955	57.479	30.373	1.00	39.62
ATOM	2469	CA	GLN	320	-15.855	58.559	31.339	1.00	39.58
ATOM	2470	CB	GLN	320	-14.836	59.588	30.862	1.00	43.25
ATOM	2471	CG	GLN	320	-14.655	60.766	31.794	1.00	38.71
ATOM	2472	CD	GLN	320	-13.427	61.586	31.454	1.00	33.28
ATOM	2473	OE1	GLN	320	-12.940	61.558	30.321	1.00	34.89
ATOM	2474	NE2	GLN	320	-12.913	62.313	32.443	1.00	29.64
ATOM	2475	C	GLN	320	-17.178	59.248	31.602	1.00	44.80
ATOM	2476	O	GLN	320	-17.747	59.881	30.714	1.00	46.39
ATOM	2477	N	ARG	321	-17.679	59.091	32.819	1.00	47.52
ATOM	2478	CA	ARG	321	-18.921	59.734	33.217	1.00	50.59
ATOM	2479	CB	ARG	321	-19.507	59.043	34.451	1.00	58.66
ATOM	2480	CG	ARG	321	-20.807	58.273	34.228	1.00	66.92
ATOM	2481	CD	ARG	321	-20.605	56.991	33.423	1.00	71.49
ATOM	2482	NE	ARG	321	-20.853	57.170	31.993	1.00	69.84
ATOM	2483	CZ	ARG	321	-22.048	57.047	31.421	1.00	67.68
ATOM	2484	NH1	ARG	321	-23.113	56.744	32.158	1.00	62.26
ATOM	2485	NH2	ARG	321	-22.176	57.220	30.109	1.00	62.28
ATOM	2486	C	ARG	321	-18.512	61.151	33.578	1.00	52.47
ATOM	2487	O	ARG	321	-17.328	61.428	33.765	1.00	50.48
ATOM	2488	N	ALA	322	-19.483	62.046	33.699	1.00	56.38
ATOM	2489	CA	ALA	322	-19.186	63.431	34.046	1.00	59.02
ATOM	2490	CB	ALA	322	-20.446	64.271	33.931	1.00	65.36
ATOM	2491	C	ALA	322	-18.567	63.579	35.444	1.00	57.09
ATOM	2492	O	ALA	322	-17.545	64.245	35.608	1.00	53.12
ATOM	2493	N	SER	323	-19.168	62.915	36.431	1.00	59.23
ATOM	2494	CA	SER	323	-18.727	62.962	37.831	1.00	64.32
ATOM	2495	CB	SER	323	-19.482	61.913	38.652	1.00	62.09
ATOM	2496	OG	SER	323	-19.102	60.600	38.277	1.00	54.25
ATOM	2497	C	SER	323	-17.228	62.799	38.101	1.00	68.79
ATOM	2498	O	SER	323	-16.730	63.247	39.138	1.00	68.06
ATOM	2499	N	GLY	324	-16.526	62.126	37.191	1.00	73.21
ATOM	2500	CA	GLY	324	-15.102	61.903	37.360	1.00	74.38
ATOM	2501	C	GLY	324	-14.738	60.429	37.286	1.00	76.39
ATOM	2502	O	GLY	324	-13.641	60.089	36.835	1.00	75.99
ATOM	2503	N	ASP	325	-15.645	59.561	37.747	1.00	73.18

ATOM	2504	CA	ASP	325	-15.435	58.107	37.721	1.00	69.85
ATOM	2505	CB	ASP	325	-16.163	57.417	38.880	1.00	75.13
ATOM	2506	CG	ASP	325	-17.662	57.621	38.837	1.00	79.85
ATOM	2507	OD1	ASP	325	-18.320	57.039	37.944	1.00	82.76
ATOM	2508	OD2	ASP	325	-18.181	58.357	39.705	1.00	81.33
ATOM	2509	C	ASP	325	-15.849	57.488	36.380	1.00	62.99
ATOM	2510	O	ASP	325	-16.494	58.138	35.554	1.00	65.39
ATOM	2511	N	PHE	326	-15.530	56.214	36.189	1.00	49.47
ATOM	2512	CA	PHE	326	-15.830	55.567	34.925	1.00	42.47
ATOM	2513	CB	PHE	326	-14.552	54.962	34.338	1.00	39.57
ATOM	2514	CG	PHE	326	-13.506	55.984	33.971	1.00	32.67
ATOM	2515	CD1	PHE	326	-12.705	56.566	34.948	1.00	28.38
ATOM	2516	CD2	PHE	326	-13.329	56.370	32.652	1.00	28.56
ATOM	2517	CE1	PHE	326	-11.750	57.520	34.618	1.00	20.43
ATOM	2518	CE2	PHE	326	-12.376	57.321	32.315	1.00	26.20
ATOM	2519	CZ	PHE	326	-11.583	57.899	33.303	1.00	21.93
ATOM	2520	C	PHE	326	-16.922	54.520	34.928	1.00	39.84
ATOM	2521	O	PHE	326	-17.392	54.084	35.976	1.00	44.00
ATOM	2522	N	GLN	327	-17.295	54.130	33.714	1.00	38.92
ATOM	2523	CA	GLN	327	-18.310	53.118	33.432	1.00	38.35
ATOM	2524	CB	GLN	327	-19.518	53.786	32.752	1.00	46.53
ATOM	2525	CG	GLN	327	-20.787	52.941	32.649	1.00	55.66
ATOM	2526	CD	GLN	327	-20.832	52.055	31.401	1.00	69.44
ATOM	2527	OE1	GLN	327	-21.627	51.113	31.322	1.00	73.47
ATOM	2528	NE2	GLN	327	-19.986	52.363	30.416	1.00	74.32
ATOM	2529	C	GLN	327	-17.586	52.139	32.486	1.00	33.70
ATOM	2530	O	GLN	327	-17.465	52.381	31.277	1.00	23.22
ATOM	2531	N	THR	328	-17.082	51.044	33.051	1.00	28.84
ATOM	2532	CA	THR	328	-16.316	50.077	32.267	1.00	27.49
ATOM	2533	CB	THR	328	-14.984	49.756	32.949	1.00	25.08
ATOM	2534	OG1	THR	328	-14.342	50.975	33.346	1.00	37.24
ATOM	2535	CG2	THR	328	-14.075	49.005	31.996	1.00	17.24
ATOM	2536	C	THR	328	-16.981	48.760	31.911	1.00	27.73
ATOM	2537	O	THR	328	-17.830	48.244	32.633	1.00	30.98
ATOM	2538	N	THR	329	-16.515	48.200	30.802	1.00	25.27
ATOM	2539	CA	THR	329	-17.002	46.941	30.267	1.00	19.72
ATOM	2540	CB	THR	329	-18.008	47.206	29.104	1.00	17.04
ATOM	2541	OG1	THR	329	-17.293	47.428	27.883	1.00	22.02
ATOM	2542	CG2	THR	329	-18.865	48.449	29.386	1.00	12.95
ATOM	2543	C	THR	329	-15.776	46.173	29.725	1.00	23.53
ATOM	2544	O	THR	329	-14.649	46.675	29.769	1.00	26.20
ATOM	2545	N	LYS	330	-15.980	44.949	29.250	1.00	21.27
ATOM	2546	CA	LYS	330	-14.882	44.170	28.693	1.00	16.76
ATOM	2547	CB	LYS	330	-14.670	42.870	29.465	1.00	15.67
ATOM	2548	CG	LYS	330	-14.325	43.069	30.941	1.00	23.34
ATOM	2549	CD	LYS	330	-13.099	43.950	31.138	1.00	20.50
ATOM	2550	CE	LYS	330	-12.969	44.417	32.583	1.00	24.02
ATOM	2551	NZ	LYS	330	-12.742	43.319	33.557	1.00	20.24
ATOM	2552	C	LYS	330	-15.191	43.862	27.252	1.00	17.11
ATOM	2553	O	LYS	330	-16.183	44.338	26.708	1.00	25.39
ATOM	2554	N	LEU	331	-14.349	43.044	26.636	1.00	19.77
ATOM	2555	CA	LEU	331	-14.517	42.672	25.236	1.00	16.93
ATOM	2556	CB	LEU	331	-14.436	43.934	24.378	1.00	13.97
ATOM	2557	CG	LEU	331	-14.549	43.880	22.864	1.00	16.11
ATOM	2558	CD1	LEU	331	-15.682	42.984	22.408	1.00	24.00
ATOM	2559	CD2	LEU	331	-14.748	45.285	22.393	1.00	4.01
ATOM	2560	C	LEU	331	-13.400	41.686	24.895	1.00	17.52

ATOM	2561	O	LEU	331	-12.234	42.064	24.757	1.00	18.06
ATOM	2562	N	ASN	332	-13.755	40.407	24.824	1.00	14.60
ATOM	2563	CA	ASN	332	-12.771	39.373	24.549	1.00	12.98
ATOM	2564	CB	ASN	332	-13.190	38.047	25.180	1.00	6.06
ATOM	2565	CG	ASN	332	-13.386	38.160	26.674	1.00	4.99
ATOM	2566	OD1	ASN	332	-14.259	38.885	27.134	1.00	6.10
ATOM	2567	ND2	ASN	332	-12.565	37.455	27.442	1.00	15.29
ATOM	2568	C	ASN	332	-12.501	39.178	23.081	1.00	15.21
ATOM	2569	O	ASN	332	-13.214	39.701	22.222	1.00	17.54
ATOM	2570	N	GLY	333	-11.452	38.417	22.806	1.00	12.41
ATOM	2571	CA	GLY	333	-11.079	38.150	21.438	1.00	19.20
ATOM	2572	C	GLY	333	-11.822	36.960	20.901	1.00	20.83
ATOM	2573	O	GLY	333	-12.602	36.340	21.606	1.00	26.55
ATOM	2574	N	PHE	334	-11.615	36.690	19.620	1.00	28.14
ATOM	2575	CA	PHE	334	-12.225	35.568	18.921	1.00	31.83
ATOM	2576	CB	PHE	334	-13.114	36.082	17.775	1.00	34.44
ATOM	2577	CG	PHE	334	-13.822	37.390	18.072	1.00	30.52
ATOM	2578	CD1	PHE	334	-13.636	38.490	17.249	1.00	29.11
ATOM	2579	CD2	PHE	334	-14.672	37.517	19.170	1.00	38.29
ATOM	2580	CE1	PHE	334	-14.286	39.699	17.507	1.00	30.33
ATOM	2581	CE2	PHE	334	-15.326	38.728	19.436	1.00	39.46
ATOM	2582	CZ	PHE	334	-15.130	39.820	18.599	1.00	30.31
ATOM	2583	C	PHE	334	-10.973	34.890	18.362	1.00	36.48
ATOM	2584	O	PHE	334	-10.168	35.558	17.699	1.00	49.62
ATOM	2585	N	GLU	335	-10.798	33.597	18.649	1.00	30.45
ATOM	2586	CA	GLU	335	-9.612	32.801	18.252	1.00	30.56
ATOM	2587	CB	GLU	335	-8.979	33.260	16.931	1.00	19.13
ATOM	2588	CG	GLU	335	-9.876	33.202	15.715	1.00	27.49
ATOM	2589	CD	GLU	335	-9.149	33.618	14.445	1.00	32.05
ATOM	2590	OE1	GLU	335	-8.974	34.842	14.238	1.00	38.03
ATOM	2591	OE2	GLU	335	-8.744	32.725	13.661	1.00	26.80
ATOM	2592	C	GLU	335	-8.536	32.868	19.356	1.00	31.33
ATOM	2593	O	GLU	335	-8.300	33.922	19.958	1.00	34.06
ATOM	2594	N	VAL	336	-7.879	31.746	19.619	1.00	29.28
ATOM	2595	CA	VAL	336	-6.852	31.711	20.653	1.00	22.60
ATOM	2596	CB	VAL	336	-6.834	30.354	21.394	1.00	20.08
ATOM	2597	CG1	VAL	336	-8.245	29.903	21.707	1.00	17.05
ATOM	2598	CG2	VAL	336	-6.085	29.307	20.581	1.00	22.02
ATOM	2599	C	VAL	336	-5.454	31.977	20.094	1.00	25.47
ATOM	2600	O	VAL	336	-5.139	31.567	18.969	1.00	29.67
ATOM	2601	N	PHE	337	-4.623	32.641	20.904	1.00	21.07
ATOM	2602	CA	PHE	337	-3.238	32.975	20.559	1.00	16.56
ATOM	2603	CB	PHE	337	-2.490	31.745	20.029	1.00	18.90
ATOM	2604	CG	PHE	337	-2.362	30.625	21.017	1.00	8.43
ATOM	2605	CD1	PHE	337	-2.600	30.832	22.371	1.00	9.19
ATOM	2606	CD2	PHE	337	-1.972	29.368	20.590	1.00	4.95
ATOM	2607	CE1	PHE	337	-2.445	29.804	23.289	1.00	7.94
ATOM	2608	CE2	PHE	337	-1.815	28.337	21.494	1.00	11.67
ATOM	2609	CZ	PHE	337	-2.054	28.557	22.855	1.00	11.55
ATOM	2610	C	PHE	337	-3.128	34.082	19.524	1.00	11.85
ATOM	2611	O	PHE	337	-2.038	34.356	19.027	1.00	10.62
ATOM	2612	N	ALA	338	-4.262	34.688	19.185	1.00	12.84
ATOM	2613	CA	ALA	338	-4.317	35.760	18.203	1.00	6.20
ATOM	2614	CB	ALA	338	-5.717	35.921	17.717	1.00	3.12
ATOM	2615	C	ALA	338	-3.825	37.067	18.787	1.00	6.66
ATOM	2616	O	ALA	338	-3.327	37.923	18.063	1.00	11.58
ATOM	2617	N	ARG	339	-3.952	37.185	20.107	1.00	13.26

ATOM	2618	CA	ARG	339	-3.547	38.365	20.867	1.00	15.38
ATOM	2619	CB	ARG	339	-2.052	38.638	20.702	1.00	7.39
ATOM	2620	CG	ARG	339	-1.221	37.844	21.673	1.00	4.05
ATOM	2621	CD	ARG	339	-0.337	36.876	20.956	1.00	13.40
ATOM	2622	NE	ARG	339	1.073	37.242	21.076	1.00	12.45
ATOM	2623	CZ	ARG	339	1.886	36.787	22.020	1.00	7.89
ATOM	2624	NH1	ARG	339	1.433	35.951	22.944	1.00	9.18
ATOM	2625	NH2	ARG	339	3.167	37.130	22.015	1.00	17.08
ATOM	2626	C	ARG	339	-4.387	39.594	20.537	1.00	12.27
ATOM	2627	O	ARG	339	-3.873	40.618	20.100	1.00	22.46
ATOM	2628	N	PHE	340	-5.671	39.492	20.851	1.00	10.44
ATOM	2629	CA	PHE	340	-6.660	40.523	20.589	1.00	10.16
ATOM	2630	CB	PHE	340	-7.979	40.145	21.239	1.00	10.06
ATOM	2631	CG	PHE	340	-9.110	41.056	20.877	1.00	3.42
ATOM	2632	CD1	PHE	340	-9.458	41.255	19.545	1.00	2.00
ATOM	2633	CD2	PHE	340	-9.834	41.711	21.868	1.00	2.42
ATOM	2634	CE1	PHE	340	-10.509	42.094	19.217	1.00	4.86
ATOM	2635	CE2	PHE	340	-10.888	42.552	21.551	1.00	2.00
ATOM	2636	CZ	PHE	340	-11.229	42.747	20.237	1.00	2.00
ATOM	2637	C	PHE	340	-6.353	41.974	20.915	1.00	15.57
ATOM	2638	O	PHE	340	-6.332	42.811	20.019	1.00	20.69
ATOM	2639	N	GLY	341	-6.183	42.307	22.185	1.00	15.37
ATOM	2640	CA	GLY	341	-5.917	43.703	22.501	1.00	24.00
ATOM	2641	C	GLY	341	-4.538	44.268	22.176	1.00	21.86
ATOM	2642	O	GLY	341	-4.216	45.382	22.590	1.00	27.32
ATOM	2643	N	SER	342	-3.751	43.543	21.388	1.00	18.44
ATOM	2644	CA	SER	342	-2.390	43.953	21.057	1.00	17.99
ATOM	2645	CB	SER	342	-1.772	42.970	20.052	1.00	26.16
ATOM	2646	OG	SER	342	-0.353	43.061	20.030	1.00	35.36
ATOM	2647	C	SER	342	-2.181	45.400	20.596	1.00	14.44
ATOM	2648	O	SER	342	-1.159	46.017	20.925	1.00	14.66
ATOM	2649	N	ALA	343	-3.151	45.956	19.877	1.00	11.94
ATOM	2650	CA	ALA	343	-3.019	47.324	19.379	1.00	9.28
ATOM	2651	CB	ALA	343	-2.162	47.329	18.115	1.00	2.00
ATOM	2652	C	ALA	343	-4.357	48.028	19.118	1.00	10.92
ATOM	2653	O	ALA	343	-4.970	47.854	18.066	1.00	18.65
ATOM	2654	N	ILE	344	-4.789	48.844	20.074	1.00	4.85
ATOM	2655	CA	ILE	344	-6.042	49.587	19.972	1.00	7.39
ATOM	2656	CB	ILE	344	-6.589	49.904	21.373	1.00	5.41
ATOM	2657	CG2	ILE	344	-8.027	50.365	21.281	1.00	4.17
ATOM	2658	CG1	ILE	344	-6.475	48.677	22.276	1.00	8.04
ATOM	2659	CD1	ILE	344	-6.906	48.932	23.703	1.00	11.63
ATOM	2660	C	ILE	344	-5.778	50.916	19.271	1.00	11.79
ATOM	2661	O	ILE	344	-5.101	51.769	19.832	1.00	19.18
ATOM	2662	N	ALA	345	-6.336	51.115	18.076	1.00	14.43
ATOM	2663	CA	ALA	345	-6.118	52.365	17.335	1.00	4.22
ATOM	2664	CB	ALA	345	-5.277	52.103	16.111	1.00	2.00
ATOM	2665	C	ALA	345	-7.368	53.137	16.930	1.00	4.70
ATOM	2666	O	ALA	345	-8.160	52.680	16.103	1.00	2.00
ATOM	2667	N	PRO	346	-7.557	54.329	17.515	1.00	11.18
ATOM	2668	CD	PRO	346	-6.763	54.762	18.675	1.00	5.24
ATOM	2669	CA	PRO	346	-8.678	55.256	17.277	1.00	12.06
ATOM	2670	CB	PRO	346	-8.320	56.450	18.150	1.00	2.00
ATOM	2671	CG	PRO	346	-7.655	55.810	19.300	1.00	6.29
ATOM	2672	C	PRO	346	-8.766	55.699	15.819	1.00	13.55
ATOM	2673	O	PRO	346	-7.750	55.795	15.133	1.00	14.47
ATOM	2674	N	LEU	347	-9.987	55.951	15.358	1.00	14.07

ATOM	2675	CA	LEU	347	-10.245	56.419	13.993	1.00	13.32
ATOM	2676	CB	LEU	347	-11.037	55.377	13.222	1.00	10.31
ATOM	2677	CG	LEU	347	-10.617	53.955	13.516	1.00	8.49
ATOM	2678	CD1	LEU	347	-11.595	52.958	12.916	1.00	2.00
ATOM	2679	CD2	LEU	347	-9.219	53.796	12.984	1.00	6.75
ATOM	2680	C	LEU	347	-11.125	57.642	14.132	1.00	13.02
ATOM	2681	O	LEU	347	-11.503	58.027	15.235	1.00	17.18
ATOM	2682	N	GLY	348	-11.496	58.244	13.023	1.00	10.29
ATOM	2683	CA	GLY	348	-12.357	59.399	13.153	1.00	26.65
ATOM	2684	C	GLY	348	-13.815	59.003	13.332	1.00	33.17
ATOM	2685	O	GLY	348	-14.314	58.795	14.445	1.00	26.76
ATOM	2686	N	ASP	349	-14.472	58.854	12.189	1.00	36.76
ATOM	2687	CA	ASP	349	-15.875	58.511	12.093	1.00	35.77
ATOM	2688	CB	ASP	349	-16.695	59.803	12.227	1.00	36.07
ATOM	2689	CG	ASP	349	-18.163	59.555	12.498	1.00	42.51
ATOM	2690	OD1	ASP	349	-18.681	58.480	12.134	1.00	48.82
ATOM	2691	OD2	ASP	349	-18.809	60.449	13.082	1.00	40.90
ATOM	2692	C	ASP	349	-15.942	57.982	10.668	1.00	38.24
ATOM	2693	O	ASP	349	-16.133	58.751	9.731	1.00	44.82
ATOM	2694	N	LEU	350	-15.707	56.686	10.498	1.00	33.20
ATOM	2695	CA	LEU	350	-15.718	56.055	9.175	1.00	40.52
ATOM	2696	CB	LEU	350	-15.177	54.629	9.270	1.00	46.72
ATOM	2697	CG	LEU	350	-13.673	54.462	9.411	1.00	44.58
ATOM	2698	CD1	LEU	350	-13.198	55.201	10.639	1.00	50.76
ATOM	2699	CD2	LEU	350	-13.340	52.987	9.499	1.00	44.72
ATOM	2700	C	LEU	350	-17.079	56.028	8.474	1.00	41.10
ATOM	2701	O	LEU	350	-17.277	55.317	7.477	1.00	46.26
ATOM	2702	N	ASP	351	-18.013	56.802	9.005	1.00	38.24
ATOM	2703	CA	ASP	351	-19.358	56.880	8.460	1.00	38.50
ATOM	2704	CB	ASP	351	-20.270	55.856	9.151	1.00	42.15
ATOM	2705	CG	ASP	351	-19.595	55.165	10.317	1.00	41.56
ATOM	2706	OD1	ASP	351	-19.370	53.939	10.229	1.00	47.44
ATOM	2707	OD2	ASP	351	-19.263	55.855	11.303	1.00	33.47
ATOM	2708	C	ASP	351	-19.903	58.286	8.677	1.00	37.31
ATOM	2709	O	ASP	351	-20.978	58.639	8.184	1.00	41.78
ATOM	2710	N	GLN	352	-19.148	59.090	9.415	1.00	35.36
ATOM	2711	CA	GLN	352	-19.559	60.445	9.701	1.00	36.36
ATOM	2712	CB	GLN	352	-19.550	61.291	8.424	1.00	44.93
ATOM	2713	CG	GLN	352	-18.174	61.515	7.806	1.00	53.44
ATOM	2714	CD	GLN	352	-17.220	62.230	8.736	1.00	58.04
ATOM	2715	OE1	GLN	352	-16.315	61.614	9.294	1.00	63.81
ATOM	2716	NE2	GLN	352	-17.417	63.533	8.912	1.00	56.73
ATOM	2717	C	GLN	352	-20.956	60.405	10.293	1.00	34.10
ATOM	2718	O	GLN	352	-21.787	61.261	9.984	1.00	38.54
ATOM	2719	N	ASP	353	-21.239	59.370	11.085	1.00	32.72
ATOM	2720	CA	ASP	353	-22.550	59.258	11.709	1.00	34.51
ATOM	2721	CB	ASP	353	-22.964	57.794	11.949	1.00	33.96
ATOM	2722	CG	ASP	353	-22.046	57.053	12.905	1.00	38.29
ATOM	2723	OD1	ASP	353	-21.606	55.945	12.535	1.00	35.58
ATOM	2724	OD2	ASP	353	-21.802	57.531	14.035	1.00	39.61
ATOM	2725	C	ASP	353	-22.598	60.065	12.992	1.00	35.22
ATOM	2726	O	ASP	353	-23.518	59.910	13.797	1.00	43.10
ATOM	2727	N	GLY	354	-21.581	60.905	13.182	1.00	34.28
ATOM	2728	CA	GLY	354	-21.508	61.760	14.355	1.00	37.13
ATOM	2729	C	GLY	354	-20.993	61.106	15.621	1.00	32.33
ATOM	2730	O	GLY	354	-21.146	61.657	16.717	1.00	33.88
ATOM	2731	N	PHE	355	-20.401	59.929	15.473	1.00	26.35

ATOM	2732	CA	PHE	355	-19.856	59.199	16.606	1.00	24.74
ATOM	2733	CB	PHE	355	-20.789	58.071	16.999	1.00	17.52
ATOM	2734	CG	PHE	355	-22.005	58.545	17.703	1.00	9.17
ATOM	2735	CD1	PHE	355	-21.918	58.997	19.017	1.00	3.69
ATOM	2736	CD2	PHE	355	-23.226	58.580	17.054	1.00	3.29
ATOM	2737	CE1	PHE	355	-23.021	59.480	19.676	1.00	2.00
ATOM	2738	CE2	PHE	355	-24.345	59.064	17.704	1.00	12.70
ATOM	2739	CZ	PHE	355	-24.245	59.518	19.025	1.00	12.33
ATOM	2740	C	PHE	355	-18.502	58.663	16.239	1.00	26.40
ATOM	2741	O	PHE	355	-18.190	58.541	15.062	1.00	30.02
ATOM	2742	N	ASN	356	-17.685	58.340	17.235	1.00	29.49
ATOM	2743	CA	ASN	356	-16.348	57.841	16.931	1.00	34.84
ATOM	2744	CB	ASN	356	-15.343	58.382	17.933	1.00	29.42
ATOM	2745	CG	ASN	356	-14.993	59.812	17.651	1.00	26.73
ATOM	2746	OD1	ASN	356	-14.453	60.125	16.591	1.00	22.67
ATOM	2747	ND2	ASN	356	-15.354	60.703	18.564	1.00	32.73
ATOM	2748	C	ASN	356	-16.134	56.353	16.683	1.00	34.07
ATOM	2749	O	ASN	356	-16.999	55.521	16.964	1.00	34.59
ATOM	2750	N	ASP	357	-14.978	56.035	16.110	1.00	34.11
ATOM	2751	CA	ASP	357	-14.636	54.657	15.803	1.00	32.65
ATOM	2752	CB	ASP	357	-14.622	54.445	14.291	1.00	40.43
ATOM	2753	CG	ASP	357	-15.975	54.710	13.653	1.00	45.02
ATOM	2754	OD1	ASP	357	-16.021	55.464	12.661	1.00	47.20
ATOM	2755	OD2	ASP	357	-16.990	54.172	14.143	1.00	39.02
ATOM	2756	C	ASP	357	-13.307	54.246	16.414	1.00	30.17
ATOM	2757	O	ASP	357	-12.634	55.050	17.063	1.00	32.38
ATOM	2758	N	ILE	358	-12.946	52.981	16.208	1.00	23.87
ATOM	2759	CA	ILE	358	-11.707	52.426	16.738	1.00	15.45
ATOM	2760	CB	ILE	358	-11.751	52.401	18.284	1.00	7.04
ATOM	2761	CG2	ILE	358	-12.708	51.331	18.773	1.00	2.00
ATOM	2762	CG1	ILE	358	-10.347	52.226	18.856	1.00	3.88
ATOM	2763	CD1	ILE	358	-10.208	52.755	20.277	1.00	2.00
ATOM	2764	C	ILE	358	-11.494	51.018	16.187	1.00	7.99
ATOM	2765	O	ILE	358	-12.446	50.338	15.830	1.00	2.00
ATOM	2766	N	ALA	359	-10.238	50.614	16.040	1.00	9.89
ATOM	2767	CA	ALA	359	-9.931	49.280	15.538	1.00	2.00
ATOM	2768	CB	ALA	359	-9.349	49.345	14.155	1.00	2.00
ATOM	2769	C	ALA	359	-8.979	48.568	16.483	1.00	5.18
ATOM	2770	O	ALA	359	-7.929	49.099	16.841	1.00	2.00
ATOM	2771	N	ILE	360	-9.415	47.412	16.974	1.00	7.18
ATOM	2772	CA	ILE	360	-8.605	46.593	17.865	1.00	5.05
ATOM	2773	CB	ILE	360	-9.432	45.912	18.928	1.00	2.00
ATOM	2774	CG2	ILE	360	-8.524	45.078	19.803	1.00	2.00
ATOM	2775	CG1	ILE	360	-10.190	46.978	19.732	1.00	2.00
ATOM	2776	CD1	ILE	360	-10.912	46.471	20.950	1.00	5.99
ATOM	2777	C	ILE	360	-8.009	45.551	16.972	1.00	2.95
ATOM	2778	O	ILE	360	-8.665	45.105	16.032	1.00	9.89
ATOM	2779	N	ALA	361	-6.762	45.179	17.219	1.00	2.00
ATOM	2780	CA	ALA	361	-6.149	44.200	16.342	1.00	6.24
ATOM	2781	CB	ALA	361	-5.127	44.858	15.444	1.00	7.55
ATOM	2782	C	ALA	361	-5.543	42.990	17.005	1.00	14.19
ATOM	2783	O	ALA	361	-4.920	43.085	18.060	1.00	20.05
ATOM	2784	N	ALA	362	-5.764	41.846	16.364	1.00	14.07
ATOM	2785	CA	ALA	362	-5.228	40.562	16.785	1.00	7.79
ATOM	2786	CB	ALA	362	-6.331	39.562	16.890	1.00	19.74
ATOM	2787	C	ALA	362	-4.309	40.238	15.609	1.00	4.98
ATOM	2788	O	ALA	362	-4.734	39.652	14.619	1.00	2.00

ATOM	2789	N	PRO	363	-3.046	40.691	15.682	1.00	5.78
ATOM	2790	CD	PRO	363	-2.457	41.322	16.879	1.00	2.00
ATOM	2791	CA	PRO	363	-2.028	40.497	14.648	1.00	2.00
ATOM	2792	CB	PRO	363	-0.837	41.249	15.211	1.00	4.10
ATOM	2793	CG	PRO	363	-1.012	41.064	16.695	1.00	4.61
ATOM	2794	C	PRO	363	-1.680	39.066	14.351	1.00	4.59
ATOM	2795	O	PRO	363	-1.120	38.773	13.288	1.00	6.76
ATOM	2796	N	TYR	364	-2.027	38.178	15.278	1.00	6.88
ATOM	2797	CA	TYR	364	-1.734	36.764	15.120	1.00	10.94
ATOM	2798	CB	TYR	364	-0.953	36.266	16.323	1.00	9.98
ATOM	2799	CG	TYR	364	0.265	37.100	16.593	1.00	16.90
ATOM	2800	CD1	TYR	364	0.352	37.882	17.742	1.00	18.69
ATOM	2801	CE1	TYR	364	1.460	38.696	17.979	1.00	30.19
ATOM	2802	CD2	TYR	364	1.316	37.142	15.681	1.00	12.60
ATOM	2803	CE2	TYR	364	2.420	37.949	15.904	1.00	31.21
ATOM	2804	CZ	TYR	364	2.493	38.727	17.057	1.00	32.39
ATOM	2805	OH	TYR	364	3.596	39.527	17.284	1.00	37.01
ATOM	2806	C	TYR	364	-2.987	35.948	14.938	1.00	15.27
ATOM	2807	O	TYR	364	-3.018	34.766	15.264	1.00	23.32
ATOM	2808	N	GLY	365	-4.019	36.589	14.401	1.00	20.81
ATOM	2809	CA	GLY	365	-5.289	35.925	14.171	1.00	22.93
ATOM	2810	C	GLY	365	-5.418	35.411	12.755	1.00	24.35
ATOM	2811	O	GLY	365	-4.418	35.281	12.054	1.00	24.53
ATOM	2812	N	GLY	366	-6.652	35.118	12.349	1.00	26.98
ATOM	2813	CA	GLY	366	-6.919	34.605	11.017	1.00	33.99
ATOM	2814	C	GLY	366	-6.224	33.295	10.697	1.00	41.32
ATOM	2815	O	GLY	366	-5.699	32.613	11.584	1.00	42.85
ATOM	2816	N	GLU	367	-6.251	32.934	9.419	1.00	47.54
ATOM	2817	CA	GLU	367	-5.609	31.717	8.931	1.00	58.02
ATOM	2818	CB	GLU	367	-6.199	31.303	7.577	1.00	64.63
ATOM	2819	CG	GLU	367	-5.812	32.205	6.382	1.00	71.58
ATOM	2820	CD	GLU	367	-6.488	33.580	6.392	1.00	75.38
ATOM	2821	OE1	GLU	367	-7.369	33.815	5.538	1.00	73.99
ATOM	2822	OE2	GLU	367	-6.126	34.437	7.231	1.00	78.01
ATOM	2823	C	GLU	367	-4.120	32.005	8.767	1.00	60.29
ATOM	2824	O	GLU	367	-3.733	33.137	8.474	1.00	61.24
ATOM	2825	N	ASP	368	-3.290	30.988	8.975	1.00	60.93
ATOM	2826	CA	ASP	368	-1.839	31.130	8.843	1.00	64.07
ATOM	2827	CB	ASP	368	-1.462	31.229	7.360	1.00	69.66
ATOM	2828	CG	ASP	368	-2.001	30.069	6.547	1.00	75.90
ATOM	2829	OD1	ASP	368	-1.214	29.155	6.229	1.00	81.17
ATOM	2830	OD2	ASP	368	-3.213	30.065	6.233	1.00	78.65
ATOM	2831	C	ASP	368	-1.291	32.340	9.612	1.00	61.61
ATOM	2832	O	ASP	368	-0.277	32.929	9.229	1.00	63.69
ATOM	2833	N	LYS	369	-1.973	32.694	10.700	1.00	55.77
ATOM	2834	CA	LYS	369	-1.601	33.826	11.539	1.00	53.10
ATOM	2835	CB	LYS	369	-0.507	33.437	12.540	1.00	60.79
ATOM	2836	CG	LYS	369	-1.017	32.592	13.707	1.00	68.54
ATOM	2837	CD	LYS	369	-0.063	32.614	14.905	1.00	73.25
ATOM	2838	CE	LYS	369	-0.689	31.929	16.124	1.00	77.03
ATOM	2839	NZ	LYS	369	0.143	32.046	17.359	1.00	74.23
ATOM	2840	C	LYS	369	-1.210	35.067	10.741	1.00	48.91
ATOM	2841	O	LYS	369	-0.185	35.708	11.006	1.00	54.01
ATOM	2842	N	LYS	370	-2.026	35.374	9.739	1.00	41.00
ATOM	2843	CA	LYS	370	-1.821	36.542	8.890	1.00	35.48
ATOM	2844	CB	LYS	370	-2.569	36.369	7.572	1.00	35.38
ATOM	2845	CG	LYS	370	-2.071	35.251	6.696	1.00	36.44

ATOM	2846	CD	LYS	370	-2.913	35.191	5.428	1.00	42.01
ATOM	2847	CE	LYS	370	-2.459	34.082	4.489	1.00	51.88
ATOM	2848	NZ	LYS	370	-3.369	33.954	3.310	1.00	56.88
ATOM	2849	C	LYS	370	-2.315	37.820	9.587	1.00	32.96
ATOM	2850	O	LYS	370	-2.120	38.927	9.074	1.00	33.46
ATOM	2851	N	GLY	371	-2.985	37.644	10.732	1.00	25.72
ATOM	2852	CA	GLY	371	-3.509	38.756	11.508	1.00	12.56
ATOM	2853	C	GLY	371	-4.808	39.344	11.006	1.00	3.83
ATOM	2854	O	GLY	371	-5.017	39.449	9.793	1.00	4.23
ATOM	2855	N	ILE	372	-5.664	39.759	11.939	1.00	2.00
ATOM	2856	CA	ILE	372	-6.968	40.349	11.606	1.00	10.91
ATOM	2857	CB	ILE	372	-8.167	39.427	12.020	1.00	2.61
ATOM	2858	CG2	ILE	372	-9.489	40.032	11.568	1.00	2.00
ATOM	2859	CG1	ILE	372	-8.020	38.021	11.426	1.00	8.87
ATOM	2860	CD1	ILE	372	-8.053	37.965	9.906	1.00	15.49
ATOM	2861	C	ILE	372	-7.181	41.680	12.323	1.00	14.65
ATOM	2862	O	ILE	372	-6.767	41.853	13.475	1.00	19.40
ATOM	2863	N	VAL	373	-7.848	42.610	11.647	1.00	11.69
ATOM	2864	CA	VAL	373	-8.142	43.898	12.246	1.00	8.79
ATOM	2865	CB	VAL	373	-7.557	45.035	11.434	1.00	18.45
ATOM	2866	CG1	VAL	373	-7.854	46.362	12.116	1.00	28.36
ATOM	2867	CG2	VAL	373	-6.062	44.843	11.290	1.00	28.94
ATOM	2868	C	VAL	373	-9.651	44.085	12.355	1.00	8.28
ATOM	2869	O	VAL	373	-10.371	44.026	11.361	1.00	2.00
ATOM	2870	N	TYR	374	-10.117	44.291	13.579	1.00	4.25
ATOM	2871	CA	TYR	374	-11.530	44.484	13.843	1.00	6.22
ATOM	2872	CB	TYR	374	-11.935	43.718	15.092	1.00	9.29
ATOM	2873	CG	TYR	374	-11.598	42.259	15.045	1.00	17.17
ATOM	2874	CD1	TYR	374	-12.459	41.339	14.443	1.00	16.87
ATOM	2875	CE1	TYR	374	-12.161	39.973	14.433	1.00	23.60
ATOM	2876	CD2	TYR	374	-10.432	41.786	15.629	1.00	18.10
ATOM	2877	CE2	TYR	374	-10.123	40.432	15.624	1.00	31.11
ATOM	2878	CZ	TYR	374	-10.989	39.524	15.031	1.00	29.22
ATOM	2879	OH	TYR	374	-10.679	38.178	15.079	1.00	32.53
ATOM	2880	C	TYR	374	-11.814	45.952	14.080	1.00	7.86
ATOM	2881	O	TYR	374	-11.136	46.594	14.881	1.00	4.93
ATOM	2882	N	ILE	375	-12.824	46.476	13.391	1.00	8.73
ATOM	2883	CA	ILE	375	-13.208	47.871	13.540	1.00	8.91
ATOM	2884	CB	ILE	375	-13.267	48.597	12.177	1.00	4.39
ATOM	2885	CG2	ILE	375	-11.990	48.346	11.379	1.00	2.00
ATOM	2886	CG1	ILE	375	-14.447	48.095	11.366	1.00	16.66
ATOM	2887	CD1	ILE	375	-14.943	49.083	10.341	1.00	30.69
ATOM	2888	C	ILE	375	-14.564	47.917	14.228	1.00	6.91
ATOM	2889	O	ILE	375	-15.476	47.191	13.858	1.00	14.49
ATOM	2890	N	PHE	376	-14.679	48.733	15.265	1.00	8.89
ATOM	2891	CA	PHE	376	-15.920	48.844	16.027	1.00	18.63
ATOM	2892	CB	PHE	376	-15.662	48.500	17.494	1.00	21.19
ATOM	2893	CG	PHE	376	-15.064	47.137	17.706	1.00	28.24
ATOM	2894	CD1	PHE	376	-13.815	46.818	17.191	1.00	24.11
ATOM	2895	CD2	PHE	376	-15.758	46.166	18.426	1.00	33.52
ATOM	2896	CE1	PHE	376	-13.268	45.561	17.386	1.00	20.52
ATOM	2897	CE2	PHE	376	-15.212	44.904	18.624	1.00	26.95
ATOM	2898	CZ	PHE	376	-13.966	44.606	18.102	1.00	22.69
ATOM	2899	C	PHE	376	-16.470	50.256	15.948	1.00	25.77
ATOM	2900	O	PHE	376	-15.715	51.224	16.028	1.00	34.46
ATOM	2901	N	ASN	377	-17.786	50.386	15.842	1.00	29.26
ATOM	2902	CA	ASN	377	-18.389	51.713	15.746	1.00	24.92

ATOM	2903	CB	ASN	377	-19.563	51.710	14.748	1.00	24.86
ATOM	2904	CG	ASN	377	-19.121	51.433	13.305	1.00	30.00
ATOM	2905	OD1	ASN	377	-19.267	52.275	12.423	1.00	28.97
ATOM	2906	ND2	ASN	377	-18.585	50.247	13.068	1.00	34.91
ATOM	2907	C	ASN	377	-18.829	52.277	17.092	1.00	23.50
ATOM	2908	O	ASN	377	-18.956	51.559	18.081	1.00	23.56
ATOM	2909	N	GLY	378	-19.004	53.588	17.129	1.00	25.90
ATOM	2910	CA	GLY	378	-19.447	54.234	18.344	1.00	28.49
ATOM	2911	C	GLY	378	-20.920	54.570	18.235	1.00	34.78
ATOM	2912	O	GLY	378	-21.457	54.782	17.137	1.00	38.54
ATOM	2913	N	ARG	379	-21.590	54.555	19.377	1.00	36.14
ATOM	2914	CA	ARG	379	-23.005	54.874	19.455	1.00	37.90
ATOM	2915	CB	ARG	379	-23.853	53.600	19.462	1.00	41.81
ATOM	2916	CG	ARG	379	-23.501	52.586	20.545	1.00	55.45
ATOM	2917	CD	ARG	379	-24.249	51.259	20.353	1.00	68.32
ATOM	2918	NE	ARG	379	-23.969	50.666	19.046	1.00	78.93
ATOM	2919	CZ	ARG	379	-24.825	50.639	18.028	1.00	82.82
ATOM	2920	NH1	ARG	379	-26.042	51.159	18.157	1.00	87.47
ATOM	2921	NH2	ARG	379	-24.436	50.157	16.856	1.00	81.19
ATOM	2922	C	ARG	379	-23.179	55.673	20.737	1.00	31.89
ATOM	2923	O	ARG	379	-22.239	55.773	21.529	1.00	31.91
ATOM	2924	N	SER	380	-24.344	56.284	20.919	1.00	28.15
ATOM	2925	CA	SER	380	-24.603	57.087	22.113	1.00	31.52
ATOM	2926	CB	SER	380	-26.045	57.566	22.112	1.00	32.66
ATOM	2927	OG	SER	380	-26.934	56.462	22.062	1.00	43.42
ATOM	2928	C	SER	380	-24.327	56.318	23.404	1.00	35.93
ATOM	2929	O	SER	380	-23.636	56.807	24.303	1.00	40.77
ATOM	2930	N	THR	381	-24.850	55.095	23.461	1.00	42.62
ATOM	2931	CA	THR	381	-24.714	54.191	24.611	1.00	40.62
ATOM	2932	CB	THR	381	-25.494	52.862	24.359	1.00	43.13
ATOM	2933	OG1	THR	381	-24.892	52.149	23.266	1.00	42.24
ATOM	2934	CG2	THR	381	-26.963	53.141	24.028	1.00	35.20
ATOM	2935	C	THR	381	-23.263	53.818	24.957	1.00	32.88
ATOM	2936	O	THR	381	-22.974	53.372	26.073	1.00	29.99
ATOM	2937	N	GLY	382	-22.376	53.973	23.979	1.00	28.69
ATOM	2938	CA	GLY	382	-20.978	53.631	24.151	1.00	24.99
ATOM	2939	C	GLY	382	-20.484	52.965	22.879	1.00	23.97
ATOM	2940	O	GLY	382	-20.804	53.411	21.773	1.00	30.24
ATOM	2941	N	LEU	383	-19.743	51.874	23.022	1.00	17.50
ATOM	2942	CA	LEU	383	-19.214	51.166	21.861	1.00	14.89
ATOM	2943	CB	LEU	383	-17.725	50.876	22.089	1.00	10.07
ATOM	2944	CG	LEU	383	-16.960	50.085	21.028	1.00	6.88
ATOM	2945	CD1	LEU	383	-16.476	50.997	19.906	1.00	6.10
ATOM	2946	CD2	LEU	383	-15.795	49.426	21.692	1.00	3.52
ATOM	2947	C	LEU	383	-19.958	49.853	21.563	1.00	17.18
ATOM	2948	O	LEU	383	-20.129	49.013	22.452	1.00	18.07
ATOM	2949	N	ASN	384	-20.410	49.679	20.320	1.00	17.03
ATOM	2950	CA	ASN	384	-21.084	48.438	19.943	1.00	19.06
ATOM	2951	CB	ASN	384	-21.779	48.562	18.588	1.00	24.61
ATOM	2952	CG	ASN	384	-22.219	47.217	18.038	1.00	34.32
ATOM	2953	OD1	ASN	384	-21.986	46.909	16.867	1.00	44.02
ATOM	2954	ND2	ASN	384	-22.830	46.392	18.890	1.00	39.74
ATOM	2955	C	ASN	384	-20.026	47.343	19.876	1.00	21.91
ATOM	2956	O	ASN	384	-19.156	47.357	18.993	1.00	18.35
ATOM	2957	N	ALA	385	-20.145	46.377	20.788	1.00	17.09
ATOM	2958	CA	ALA	385	-19.206	45.265	20.913	1.00	11.53
ATOM	2959	CB	ALA	385	-19.556	44.455	22.113	1.00	2.50

ATOM	2960	C	ALA	385	-19.052	44.344	19.718	1.00	10.93
ATOM	2961	O	ALA	385	-18.282	43.390	19.776	1.00	14.48
ATOM	2962	N	VAL	386	-19.757	44.641	18.635	1.00	8.58
ATOM	2963	CA	VAL	386	-19.707	43.810	17.444	1.00	12.13
ATOM	2964	CB	VAL	386	-21.120	43.576	16.906	1.00	10.76
ATOM	2965	CG1	VAL	386	-21.092	42.567	15.778	1.00	12.76
ATOM	2966	CG2	VAL	386	-22.031	43.125	18.028	1.00	9.28
ATOM	2967	C	VAL	386	-18.841	44.349	16.302	1.00	17.37
ATOM	2968	O	VAL	386	-19.126	45.414	15.744	1.00	23.55
ATOM	2969	N	PRO	387	-17.785	43.603	15.923	1.00	14.16
ATOM	2970	CD	PRO	387	-17.301	42.376	16.581	1.00	12.71
ATOM	2971	CA	PRO	387	-16.879	43.998	14.836	1.00	14.38
ATOM	2972	CB	PRO	387	-15.999	42.758	14.664	1.00	7.79
ATOM	2973	CG	PRO	387	-15.883	42.262	16.057	1.00	11.57
ATOM	2974	C	PRO	387	-17.658	44.286	13.559	1.00	15.26
ATOM	2975	O	PRO	387	-18.203	43.364	12.953	1.00	27.06
ATOM	2976	N	SER	388	-17.731	45.564	13.174	1.00	9.80
ATOM	2977	CA	SER	388	-18.445	45.981	11.963	1.00	4.12
ATOM	2978	CB	SER	388	-18.677	47.488	11.947	1.00	4.00
ATOM	2979	OG	SER	388	-19.681	47.856	12.881	1.00	27.28
ATOM	2980	C	SER	388	-17.734	45.597	10.683	1.00	2.47
ATOM	2981	O	SER	388	-18.329	45.607	9.616	1.00	2.00
ATOM	2982	N	GLN	389	-16.455	45.266	10.788	1.00	4.83
ATOM	2983	CA	GLN	389	-15.677	44.878	9.617	1.00	10.04
ATOM	2984	CB	GLN	389	-15.347	46.112	8.751	1.00	9.51
ATOM	2985	CG	GLN	389	-14.607	45.847	7.427	1.00	16.44
ATOM	2986	CD	GLN	389	-14.513	47.101	6.531	1.00	17.90
ATOM	2987	OE1	GLN	389	-15.308	48.032	6.673	1.00	16.90
ATOM	2988	NE2	GLN	389	-13.546	47.115	5.604	1.00	5.85
ATOM	2989	C	GLN	389	-14.419	44.249	10.172	1.00	11.50
ATOM	2990	O	GLN	389	-14.114	44.422	11.362	1.00	12.84
ATOM	2991	N	ILE	390	-13.756	43.444	9.348	1.00	5.15
ATOM	2992	CA	ILE	390	-12.524	42.795	9.759	1.00	15.42
ATOM	2993	CB	ILE	390	-12.729	41.322	10.253	1.00	11.27
ATOM	2994	CG2	ILE	390	-13.685	41.268	11.419	1.00	10.78
ATOM	2995	CG1	ILE	390	-13.236	40.430	9.127	1.00	15.83
ATOM	2996	CD1	ILE	390	-12.356	39.243	8.867	1.00	17.99
ATOM	2997	C	ILE	390	-11.509	42.818	8.626	1.00	22.30
ATOM	2998	O	ILE	390	-11.662	42.134	7.603	1.00	26.80
ATOM	2999	N	LEU	391	-10.495	43.658	8.776	1.00	17.31
ATOM	3000	CA	LEU	391	-9.468	43.721	7.759	1.00	15.44
ATOM	3001	CB	LEU	391	-8.636	45.004	7.913	1.00	17.45
ATOM	3002	CG	LEU	391	-9.310	46.383	7.688	1.00	18.10
ATOM	3003	CD1	LEU	391	-10.023	46.432	6.358	1.00	14.37
ATOM	3004	CD2	LEU	391	-10.296	46.723	8.784	1.00	17.98
ATOM	3005	C	LEU	391	-8.646	42.456	7.984	1.00	13.66
ATOM	3006	O	LEU	391	-8.480	42.020	9.131	1.00	3.41
ATOM	3007	N	GLU	392	-8.255	41.800	6.892	1.00	13.39
ATOM	3008	CA	GLU	392	-7.468	40.569	6.982	1.00	19.40
ATOM	3009	CB	GLU	392	-8.197	39.396	6.337	1.00	28.89
ATOM	3010	CG	GLU	392	-9.501	39.016	6.995	1.00	48.12
ATOM	3011	CD	GLU	392	-10.002	37.655	6.543	1.00	51.68
ATOM	3012	OE1	GLU	392	-9.419	36.643	6.991	1.00	58.08
ATOM	3013	OE2	GLU	392	-10.973	37.595	5.749	1.00	49.52
ATOM	3014	C	GLU	392	-6.106	40.660	6.331	1.00	17.04
ATOM	3015	O	GLU	392	-5.985	41.031	5.160	1.00	12.51
ATOM	3016	N	GLY	393	-5.082	40.254	7.073	1.00	18.53

ATOM	3017	CA	GLY	393	-3.743	40.277	6.521	1.00	22.87
ATOM	3018	C	GLY	393	-3.727	39.376	5.308	1.00	27.21
ATOM	3019	O	GLY	393	-4.487	38.406	5.264	1.00	27.44
ATOM	3020	N	GLN	394	-2.927	39.716	4.303	1.00	30.79
ATOM	3021	CA	GLN	394	-2.846	38.889	3.103	1.00	37.29
ATOM	3022	CB	GLN	394	-3.614	39.526	1.929	1.00	40.22
ATOM	3023	CG	GLN	394	-2.903	40.653	1.194	1.00	52.72
ATOM	3024	CD	GLN	394	-2.862	41.961	1.963	1.00	60.06
ATOM	3025	OE1	GLN	394	-2.198	42.909	1.543	1.00	58.90
ATOM	3026	NE2	GLN	394	-3.591	42.033	3.077	1.00	62.20
ATOM	3027	C	GLN	394	-1.401	38.579	2.722	1.00	38.84
ATOM	3028	O	GLN	394	-1.055	38.489	1.541	1.00	46.15
ATOM	3029	N	TRP	395	-0.565	38.357	3.731	1.00	38.32
ATOM	3030	CA	TRP	395	0.833	38.069	3.481	1.00	38.07
ATOM	3031	CB	TRP	395	1.679	39.272	3.866	1.00	42.34
ATOM	3032	CG	TRP	395	1.233	40.495	3.134	1.00	46.66
ATOM	3033	CD2	TRP	395	1.429	40.777	1.746	1.00	49.02
ATOM	3034	CE2	TRP	395	0.774	41.998	1.473	1.00	49.62
ATOM	3035	CE3	TRP	395	2.091	40.114	0.705	1.00	50.31
ATOM	3036	CD1	TRP	395	0.496	41.531	3.635	1.00	47.04
ATOM	3037	NE1	TRP	395	0.214	42.434	2.643	1.00	47.05
ATOM	3038	CZ2	TRP	395	0.762	42.572	0.199	1.00	54.43
ATOM	3039	CZ3	TRP	395	2.080	40.684	-0.562	1.00	55.82
ATOM	3040	CH2	TRP	395	1.420	41.904	-0.803	1.00	57.71
ATOM	3041	C	TRP	395	1.290	36.817	4.185	1.00	32.55
ATOM	3042	O	TRP	395	0.698	36.419	5.181	1.00	37.92
ATOM	3043	N	ALA	396	2.380	36.243	3.678	1.00	37.13
ATOM	3044	CA	ALA	396	2.963	34.986	4.152	1.00	44.41
ATOM	3045	CB	ALA	396	3.978	34.509	3.133	1.00	52.01
ATOM	3046	C	ALA	396	3.537	34.826	5.567	1.00	46.89
ATOM	3047	O	ALA	396	2.799	34.767	6.548	1.00	47.42
ATOM	3048	N	ALA	397	4.845	34.600	5.639	1.00	50.24
ATOM	3049	CA	ALA	397	5.552	34.412	6.904	1.00	59.16
ATOM	3050	CB	ALA	397	5.412	32.970	7.374	1.00	56.34
ATOM	3051	C	ALA	397	7.024	34.763	6.684	1.00	66.64
ATOM	3052	O	ALA	397	7.553	35.684	7.319	1.00	71.35
ATOM	3053	N	ARG	398	7.670	34.018	5.784	1.00	70.95
ATOM	3054	CA	ARG	398	9.076	34.221	5.404	1.00	72.11
ATOM	3055	CB	ARG	398	9.254	35.586	4.702	1.00	78.82
ATOM	3056	CG	ARG	398	9.011	35.555	3.187	1.00	83.53
ATOM	3057	CD	ARG	398	8.634	36.925	2.621	1.00	89.57
ATOM	3058	NE	ARG	398	7.260	37.308	2.964	1.00	91.95
ATOM	3059	CZ	ARG	398	6.317	37.635	2.079	1.00	90.90
ATOM	3060	NH1	ARG	398	6.581	37.637	0.778	1.00	90.77
ATOM	3061	NH2	ARG	398	5.097	37.947	2.496	1.00	89.94
ATOM	3062	C	ARG	398	10.172	34.017	6.458	1.00	65.79
ATOM	3063	O	ARG	398	11.340	33.838	6.097	1.00	71.60
ATOM	3064	N	SER	399	9.806	34.042	7.739	1.00	57.79
ATOM	3065	CA	SER	399	10.762	33.858	8.836	1.00	50.31
ATOM	3066	CB	SER	399	11.863	34.925	8.793	1.00	52.50
ATOM	3067	OG	SER	399	12.698	34.843	9.939	1.00	54.84
ATOM	3068	C	SER	399	10.070	33.932	10.187	1.00	47.56
ATOM	3069	O	SER	399	10.486	33.278	11.147	1.00	46.03
ATOM	3070	N	MET	400	9.044	34.777	10.258	1.00	40.98
ATOM	3071	CA	MET	400	8.271	34.981	11.475	1.00	30.90
ATOM	3072	CB	MET	400	8.997	35.970	12.400	1.00	33.38
ATOM	3073	CG	MET	400	8.906	37.444	11.994	1.00	30.52

ATOM	3074	SD	MET	400	9.441	38.522	13.355	1.00	32.83
ATOM	3075	CE	MET	400	7.892	38.722	14.314	1.00	33.92
ATOM	3076	C	MET	400	6.891	35.526	11.096	1.00	24.44
ATOM	3077	O	MET	400	6.694	35.977	9.965	1.00	17.31
ATOM	3078	N	PRO	401	5.929	35.519	12.045	1.00	16.07
ATOM	3079	CD	PRO	401	6.036	35.121	13.458	1.00	10.11
ATOM	3080	CA	PRO	401	4.580	36.018	11.767	1.00	14.58
ATOM	3081	CB	PRO	401	3.898	35.939	13.136	1.00	9.21
ATOM	3082	CG	PRO	401	5.050	36.029	14.101	1.00	2.00
ATOM	3083	C	PRO	401	4.559	37.435	11.210	1.00	11.89
ATOM	3084	O	PRO	401	5.251	38.323	11.716	1.00	16.15
ATOM	3085	N	PRO	402	3.778	37.654	10.139	1.00	8.92
ATOM	3086	CD	PRO	402	2.978	36.620	9.467	1.00	5.28
ATOM	3087	CA	PRO	402	3.618	38.944	9.460	1.00	9.24
ATOM	3088	CB	PRO	402	2.480	38.667	8.490	1.00	6.52
ATOM	3089	CG	PRO	402	2.708	37.259	8.141	1.00	10.43
ATOM	3090	C	PRO	402	3.229	40.041	10.448	1.00	11.22
ATOM	3091	O	PRO	402	3.350	41.230	10.159	1.00	16.16
ATOM	3092	N	SER	403	2.730	39.620	11.603	1.00	8.46
ATOM	3093	CA	SER	403	2.318	40.528	12.656	1.00	10.71
ATOM	3094	CB	SER	403	3.543	41.031	13.434	1.00	10.13
ATOM	3095	OG	SER	403	4.208	39.987	14.144	1.00	2.00
ATOM	3096	C	SER	403	1.480	41.690	12.114	1.00	12.58
ATOM	3097	O	SER	403	1.609	42.832	12.577	1.00	17.95
ATOM	3098	N	PHE	404	0.643	41.383	11.115	1.00	12.47
ATOM	3099	CA	PHE	404	-0.253	42.358	10.481	1.00	8.51
ATOM	3100	CB	PHE	404	-1.065	41.692	9.361	1.00	2.73
ATOM	3101	CG	PHE	404	-2.244	42.508	8.878	1.00	3.20
ATOM	3102	CD1	PHE	404	-2.108	43.388	7.807	1.00	3.89
ATOM	3103	CD2	PHE	404	-3.501	42.364	9.469	1.00	3.59
ATOM	3104	CE1	PHE	404	-3.206	44.116	7.330	1.00	2.00
ATOM	3105	CE2	PHE	404	-4.595	43.080	9.005	1.00	2.00
ATOM	3106	CZ	PHE	404	-4.450	43.960	7.930	1.00	2.00
ATOM	3107	C	PHE	404	-1.181	42.890	11.547	1.00	5.80
ATOM	3108	O	PHE	404	-1.916	42.125	12.164	1.00	8.04
ATOM	3109	N	GLY	405	-1.125	44.196	11.776	1.00	8.46
ATOM	3110	CA	GLY	405	-1.960	44.795	12.800	1.00	8.74
ATOM	3111	C	GLY	405	-1.223	45.051	14.104	1.00	9.87
ATOM	3112	O	GLY	405	-1.818	45.552	15.047	1.00	16.44
ATOM	3113	N	TYR	406	0.069	44.733	14.171	1.00	10.34
ATOM	3114	CA	TYR	406	0.822	44.948	15.404	1.00	13.26
ATOM	3115	CB	TYR	406	2.216	44.334	15.304	1.00	13.41
ATOM	3116	CG	TYR	406	2.986	44.304	16.616	1.00	8.23
ATOM	3117	CD1	TYR	406	2.790	43.280	17.529	1.00	6.28
ATOM	3118	CE1	TYR	406	3.532	43.199	18.688	1.00	9.48
ATOM	3119	CD2	TYR	406	3.948	45.262	16.910	1.00	2.32
ATOM	3120	CE2	TYR	406	4.697	45.189	18.073	1.00	6.80
ATOM	3121	CZ	TYR	406	4.486	44.152	18.959	1.00	7.23
ATOM	3122	OH	TYR	406	5.227	44.053	20.114	1.00	8.66
ATOM	3123	C	TYR	406	0.950	46.435	15.677	1.00	17.76
ATOM	3124	O	TYR	406	1.217	46.854	16.804	1.00	21.74
ATOM	3125	N	SER	407	0.780	47.226	14.626	1.00	17.92
ATOM	3126	CA	SER	407	0.873	48.675	14.724	1.00	15.46
ATOM	3127	CB	SER	407	2.292	49.139	14.402	1.00	15.03
ATOM	3128	OG	SER	407	2.590	48.905	13.037	1.00	10.65
ATOM	3129	C	SER	407	-0.072	49.254	13.700	1.00	12.82
ATOM	3130	O	SER	407	-0.195	48.725	12.597	1.00	12.58

ATOM	3131	N	MET	408	-0.737	50.342	14.061	1.00	12.64
ATOM	3132	CA	MET	408	-1.671	50.973	13.146	1.00	16.18
ATOM	3133	CB	MET	408	-2.887	50.074	12.910	1.00	12.10
ATOM	3134	CG	MET	408	-3.483	49.458	14.157	1.00	14.31
ATOM	3135	SD	MET	408	-4.791	48.283	13.750	1.00	14.31
ATOM	3136	CE	MET	408	-6.126	49.032	14.537	1.00	21.93
ATOM	3137	C	MET	408	-2.102	52.378	13.548	1.00	14.65
ATOM	3138	O	MET	408	-2.197	52.704	14.735	1.00	17.51
ATOM	3139	N	LYS	409	-2.326	53.214	12.540	1.00	13.96
ATOM	3140	CA	LYS	409	-2.748	54.590	12.753	1.00	13.46
ATOM	3141	CB	LYS	409	-1.589	55.547	12.500	1.00	19.28
ATOM	3142	CG	LYS	409	-1.942	57.025	12.646	1.00	21.06
ATOM	3143	CD	LYS	409	-1.999	57.440	14.094	1.00	19.11
ATOM	3144	CE	LYS	409	-2.160	58.934	14.204	1.00	26.20
ATOM	3145	NZ	LYS	409	-1.781	59.431	15.561	1.00	39.64
ATOM	3146	C	LYS	409	-3.899	54.969	11.841	1.00	7.95
ATOM	3147	O	LYS	409	-3.928	54.639	10.644	1.00	2.00
ATOM	3148	N	GLY	410	-4.839	55.694	12.420	1.00	2.78
ATOM	3149	CA	GLY	410	-5.981	56.148	11.665	1.00	18.39
ATOM	3150	C	GLY	410	-6.528	57.313	12.443	1.00	24.89
ATOM	3151	O	GLY	410	-6.483	57.290	13.670	1.00	35.54
ATOM	3152	N	ALA	411	-6.972	58.350	11.739	1.00	20.68
ATOM	3153	CA	ALA	411	-7.549	59.545	12.355	1.00	20.45
ATOM	3154	CB	ALA	411	-6.806	59.944	13.626	1.00	14.37
ATOM	3155	C	ALA	411	-7.499	60.681	11.346	1.00	22.88
ATOM	3156	O	ALA	411	-8.047	61.766	11.589	1.00	23.52
ATOM	3157	N	THR	412	-6.812	60.446	10.229	1.00	21.04
ATOM	3158	CA	THR	412	-6.717	61.466	9.196	1.00	18.05
ATOM	3159	CB	THR	412	-5.309	62.127	9.141	1.00	17.39
ATOM	3160	OG1	THR	412	-4.407	61.293	8.410	1.00	2.08
ATOM	3161	CG2	THR	412	-4.760	62.377	10.564	1.00	14.49
ATOM	3162	C	THR	412	-7.143	60.968	7.812	1.00	17.55
ATOM	3163	O	THR	412	-6.779	59.878	7.365	1.00	12.65
ATOM	3164	N	ASP	413	-7.952	61.801	7.172	1.00	16.30
ATOM	3165	CA	ASP	413	-8.517	61.591	5.850	1.00	10.83
ATOM	3166	CB	ASP	413	-9.714	62.541	5.738	1.00	18.63
ATOM	3167	CG	ASP	413	-10.326	62.601	4.356	1.00	26.92
ATOM	3168	OD1	ASP	413	-9.850	61.925	3.412	1.00	24.78
ATOM	3169	OD2	ASP	413	-11.304	63.369	4.233	1.00	24.28
ATOM	3170	C	ASP	413	-7.455	61.925	4.816	1.00	4.44
ATOM	3171	O	ASP	413	-7.440	63.010	4.276	1.00	6.89
ATOM	3172	N	ILE	414	-6.619	60.960	4.478	1.00	3.41
ATOM	3173	CA	ILE	414	-5.538	61.191	3.526	1.00	12.32
ATOM	3174	CB	ILE	414	-4.589	59.972	3.509	1.00	16.68
ATOM	3175	CG2	ILE	414	-5.209	58.833	2.679	1.00	14.81
ATOM	3176	CG1	ILE	414	-3.183	60.379	3.042	1.00	12.39
ATOM	3177	CD1	ILE	414	-2.082	59.422	3.493	1.00	2.00
ATOM	3178	C	ILE	414	-5.913	61.590	2.085	1.00	15.60
ATOM	3179	O	ILE	414	-5.030	61.704	1.224	1.00	15.20
ATOM	3180	N	ASP	415	-7.200	61.823	1.823	1.00	16.64
ATOM	3181	CA	ASP	415	-7.629	62.211	0.478	1.00	21.28
ATOM	3182	CB	ASP	415	-7.764	60.969	-0.415	1.00	20.35
ATOM	3183	CG	ASP	415	-8.892	60.049	0.017	1.00	31.24
ATOM	3184	OD1	ASP	415	-9.310	59.174	-0.773	1.00	32.02
ATOM	3185	OD2	ASP	415	-9.375	60.209	1.147	1.00	29.51
ATOM	3186	C	ASP	415	-8.914	63.062	0.421	1.00	26.66
ATOM	3187	O	ASP	415	-9.331	63.675	1.410	1.00	14.75

ATOM	3188	N	LYS	416	-9.525	63.097	-0.759	1.00	35.07
ATOM	3189	CA	LYS	416	-10.749	63.862	-1.001	1.00	37.38
ATOM	3190	CB	LYS	416	-11.298	63.579	-2.413	1.00	44.06
ATOM	3191	CG	LYS	416	-10.271	63.680	-3.544	1.00	54.89
ATOM	3192	CD	LYS	416	-9.641	62.324	-3.877	1.00	58.51
ATOM	3193	CE	LYS	416	-8.386	62.473	-4.741	1.00	61.13
ATOM	3194	NZ	LYS	416	-7.192	62.934	-3.974	1.00	52.48
ATOM	3195	C	LYS	416	-11.848	63.600	0.030	1.00	35.40
ATOM	3196	O	LYS	416	-11.927	64.303	1.041	1.00	30.92
ATOM	3197	N	ASN	417	-12.660	62.574	-0.242	1.00	30.69
ATOM	3198	CA	ASN	417	-13.803	62.145	0.575	1.00	25.95
ATOM	3199	CB	ASN	417	-14.100	60.679	0.299	1.00	29.65
ATOM	3200	CG	ASN	417	-12.947	59.779	0.662	1.00	32.26
ATOM	3201	OD1	ASN	417	-13.016	59.039	1.644	1.00	38.68
ATOM	3202	ND2	ASN	417	-11.867	59.845	-0.115	1.00	26.62
ATOM	3203	C	ASN	417	-13.669	62.356	2.064	1.00	19.45
ATOM	3204	O	ASN	417	-12.804	61.763	2.691	1.00	24.94
ATOM	3205	N	GLY	418	-14.584	63.144	2.629	1.00	23.67
ATOM	3206	CA	GLY	418	-14.559	63.473	4.052	1.00	26.90
ATOM	3207	C	GLY	418	-14.644	62.336	5.057	1.00	28.15
ATOM	3208	O	GLY	418	-15.389	62.421	6.040	1.00	29.63
ATOM	3209	N	TYR	419	-13.838	61.299	4.841	1.00	24.24
ATOM	3210	CA	TYR	419	-13.818	60.132	5.705	1.00	18.06
ATOM	3211	CB	TYR	419	-14.458	58.941	4.999	1.00	28.20
ATOM	3212	CG	TYR	419	-15.934	59.125	4.758	1.00	33.23
ATOM	3213	CD1	TYR	419	-16.425	59.381	3.479	1.00	34.58
ATOM	3214	CE1	TYR	419	-17.786	59.572	3.259	1.00	36.88
ATOM	3215	CD2	TYR	419	-16.842	59.058	5.812	1.00	34.42
ATOM	3216	CE2	TYR	419	-18.202	59.245	5.602	1.00	32.78
ATOM	3217	CZ	TYR	419	-18.667	59.500	4.326	1.00	36.69
ATOM	3218	OH	TYR	419	-20.013	59.692	4.122	1.00	36.42
ATOM	3219	C	TYR	419	-12.411	59.783	6.099	1.00	10.56
ATOM	3220	O	TYR	419	-11.519	59.771	5.272	1.00	2.00
ATOM	3221	N	PRO	420	-12.197	59.501	7.389	1.00	7.06
ATOM	3222	CD	PRO	420	-13.226	59.600	8.438	1.00	2.07
ATOM	3223	CA	PRO	420	-10.895	59.139	7.962	1.00	4.86
ATOM	3224	CB	PRO	420	-11.221	58.974	9.443	1.00	4.09
ATOM	3225	CG	PRO	420	-12.405	59.911 ^o	9.641	1.00	2.32
ATOM	3226	C	PRO	420	-10.430	57.825	7.373	1.00	10.82
ATOM	3227	O	PRO	420	-11.255	57.000	7.018	1.00	18.76
ATOM	3228	N	ASP	421	-9.119	57.631	7.254	1.00	12.88
ATOM	3229	CA	ASP	421	-8.575	56.383	6.707	1.00	6.71
ATOM	3230	CB	ASP	421	-7.813	56.654	5.418	1.00	8.59
ATOM	3231	CG	ASP	421	-8.632	57.459	4.436	1.00	24.14
ATOM	3232	OD1	ASP	421	-9.157	58.512	4.850	1.00	26.52
ATOM	3233	OD2	ASP	421	-8.768	57.057	3.262	1.00	34.15
ATOM	3234	C	ASP	421	-7.694	55.667	7.738	1.00	10.41
ATOM	3235	O	ASP	421	-7.640	56.075	8.915	1.00	10.73
ATOM	3236	N	LEU	422	-7.013	54.602	7.320	1.00	8.98
ATOM	3237	CA	LEU	422	-6.193	53.855	8.264	1.00	9.04
ATOM	3238	CB	LEU	422	-7.086	52.861	9.012	1.00	15.36
ATOM	3239	CG	LEU	422	-6.495	52.058	10.170	1.00	21.21
ATOM	3240	CD1	LEU	422	-7.574	51.785	11.176	1.00	11.26
ATOM	3241	CD2	LEU	422	-5.890	50.757	9.679	1.00	22.32
ATOM	3242	C	LEU	422	-4.989	53.139	7.671	1.00	4.02
ATOM	3243	O	LEU	422	-5.066	52.567	6.586	1.00	2.00
ATOM	3244	N	ILE	423	-3.875	53.183	8.401	1.00	6.45

ATOM	3245	CA	ILE	423	-2.633	52.525	7.990	1.00	15.33
ATOM	3246	CB	ILE	423	-1.418	53.466	8.073	1.00	17.44
ATOM	3247	CG2	ILE	423	-0.223	52.840	7.363	1.00	11.23
ATOM	3248	CG1	ILE	423	-1.748	54.817	7.459	1.00	17.66
ATOM	3249	CD1	ILE	423	-0.696	55.846	7.721	1.00	17.06
ATOM	3250	C	ILE	423	-2.350	51.383	8.962	1.00	14.28
ATOM	3251	O	ILE	423	-2.252	51.612	10.165	1.00	18.87
ATOM	3252	N	VAL	424	-2.205	50.165	8.440	1.00	9.87
ATOM	3253	CA	VAL	424	-1.925	48.992	9.268	1.00	8.59
ATOM	3254	CB	VAL	424	-2.910	47.840	8.970	1.00	9.62
ATOM	3255	CG1	VAL	424	-3.168	47.032	10.221	1.00	4.83
ATOM	3256	CG2	VAL	424	-4.218	48.380	8.421	1.00	15.41
ATOM	3257	C	VAL	424	-0.524	48.541	8.901	1.00	6.32
ATOM	3258	O	VAL	424	-0.183	48.527	7.727	1.00	15.45
ATOM	3259	N	GLY	425	0.293	48.189	9.888	1.00	2.00
ATOM	3260	CA	GLY	425	1.648	47.781	9.585	1.00	2.00
ATOM	3261	C	GLY	425	1.989	46.353	9.949	1.00	16.43
ATOM	3262	O	GLY	425	1.865	45.947	11.119	1.00	17.78
ATOM	3263	N	ALA	426	2.453	45.601	8.952	1.00	8.01
ATOM	3264	CA	ALA	426	2.841	44.210	9.151	1.00	6.84
ATOM	3265	CB	ALA	426	2.135	43.328	8.146	1.00	4.76
ATOM	3266	C	ALA	426	4.349	44.078	8.999	1.00	7.20
ATOM	3267	O	ALA	426	4.851	44.028	7.886	1.00	13.29
ATOM	3268	N	PHE	427	5.075	43.986	10.107	1.00	7.83
ATOM	3269	CA	PHE	427	6.533	43.883	10.027	1.00	9.43
ATOM	3270	CB	PHE	427	7.181	44.541	11.236	1.00	2.47
ATOM	3271	CG	PHE	427	6.895	43.860	12.539	1.00	2.00
ATOM	3272	CD1	PHE	427	7.791	42.950	13.069	1.00	2.00
ATOM	3273	CD2	PHE	427	5.797	44.222	13.298	1.00	6.27
ATOM	3274	CE1	PHE	427	7.609	42.423	14.340	1.00	2.00
ATOM	3275	CE2	PHE	427	5.612	43.697	14.576	1.00	5.08
ATOM	3276	CZ	PHE	427	6.519	42.800	15.093	1.00	2.00
ATOM	3277	C	PHE	427	7.185	42.518	9.756	1.00	11.92
ATOM	3278	O	PHE	427	8.358	42.461	9.357	1.00	12.85
ATOM	3279	N	GLY	428	6.448	41.429	9.985	1.00	14.08
ATOM	3280	CA	GLY	428	6.984	40.095	9.747	1.00	15.25
ATOM	3281	C	GLY	428	7.178	39.861	8.262	1.00	22.16
ATOM	3282	O	GLY	428	7.685	38.817	7.826	1.00	19.76
ATOM	3283	N	VAL	429	6.733	40.846	7.487	1.00	21.34
ATOM	3284	CA	VAL	429	6.845	40.821	6.038	1.00	28.93
ATOM	3285	CB	VAL	429	5.495	40.474	5.380	1.00	29.25
ATOM	3286	CG1	VAL	429	5.118	39.029	5.714	1.00	27.15
ATOM	3287	CG2	VAL	429	4.411	41.441	5.843	1.00	20.56
ATOM	3288	C	VAL	429	7.383	42.159	5.509	1.00	29.75
ATOM	3289	O	VAL	429	7.747	42.268	4.336	1.00	36.47
ATOM	3290	N	ASP	430	7.472	43.151	6.398	1.00	25.41
ATOM	3291	CA	ASP	430	7.984	44.489	6.081	1.00	13.24
ATOM	3292	CB	ASP	430	9.413	44.408	5.526	1.00	9.80
ATOM	3293	CG	ASP	430	10.380	43.718	6.486	1.00	20.96
ATOM	3294	OD1	ASP	430	11.332	43.081	6.002	1.00	21.89
ATOM	3295	OD2	ASP	430	10.193	43.792	7.722	1.00	26.76
ATOM	3296	C	ASP	430	7.084	45.279	5.139	1.00	11.68
ATOM	3297	O	ASP	430	7.510	45.704	4.067	1.00	14.20
ATOM	3298	N	ARG	431	5.849	45.514	5.576	1.00	7.33
ATOM	3299	CA	ARG	431	4.859	46.247	4.794	1.00	5.63
ATOM	3300	CB	ARG	431	3.984	45.272	4.018	1.00	11.70
ATOM	3301	CG	ARG	431	4.678	44.442	2.971	1.00	20.96

ATOM	3302	CD	ARG	431	3.622	43.677	2.214	1.00	26.99
ATOM	3303	NE	ARG	431	4.018	43.374	0.847	1.00	30.32
ATOM	3304	CZ	ARG	431	4.949	42.489	0.520	1.00	34.27
ATOM	3305	NH1	ARG	431	5.591	41.814	1.465	1.00	34.19
ATOM	3306	NH2	ARG	431	5.222	42.270	-0.759	1.00	43.33
ATOM	3307	C	ARG	431	3.927	47.087	5.658	1.00	7.75
ATOM	3308	O	ARG	431	3.837	46.895	6.875	1.00	12.89
ATOM	3309	N	ALA	432	3.188	47.980	5.004	1.00	4.93
ATOM	3310	CA	ALA	432	2.212	48.830	5.681	1.00	7.04
ATOM	3311	CB	ALA	432	2.849	50.107	6.178	1.00	14.80
ATOM	3312	C	ALA	432	1.096	49.133	4.691	1.00	9.04
ATOM	3313	O	ALA	432	1.354	49.536	3.552	1.00	15.64
ATOM	3314	N	ILE	433	-0.144	48.933	5.133	1.00	8.14
ATOM	3315	CA	ILE	433	-1.304	49.137	4.278	1.00	10.51
ATOM	3316	CB	ILE	433	-2.204	47.910	4.258	1.00	11.41
ATOM	3317	CG2	ILE	433	-3.334	48.119	3.243	1.00	10.10
ATOM	3318	CG1	ILE	433	-1.384	46.671	3.912	1.00	9.27
ATOM	3319	CD1	ILE	433	-0.749	46.742	2.543	1.00	13.79
ATOM	3320	C	ILE	433	-2.194	50.297	4.639	1.00	15.90
ATOM	3321	O	ILE	433	-2.623	50.433	5.785	1.00	18.17
ATOM	3322	N	LEU	434	-2.514	51.100	3.634	1.00	8.84
ATOM	3323	CA	LEU	434	-3.397	52.217	3.853	1.00	7.74
ATOM	3324	CB	LEU	434	-2.891	53.473	3.148	1.00	2.87
ATOM	3325	CG	LEU	434	-3.704	54.763	3.338	1.00	3.05
ATOM	3326	CD1	LEU	434	-4.656	54.991	2.192	1.00	3.00
ATOM	3327	CD2	LEU	434	-4.454	54.749	4.649	1.00	3.77
ATOM	3328	C	LEU	434	-4.710	51.754	3.275	1.00	9.04
ATOM	3329	O	LEU	434	-4.752	51.267	2.152	1.00	13.72
ATOM	3330	N	TYR	435	-5.744	51.785	4.110	1.00	7.23
ATOM	3331	CA	TYR	435	-7.088	51.391	3.723	1.00	7.66
ATOM	3332	CB	TYR	435	-7.717	50.509	4.798	1.00	6.19
ATOM	3333	CG	TYR	435	-7.212	49.103	4.765	1.00	3.41
ATOM	3334	CD1	TYR	435	-6.244	48.662	5.660	1.00	2.00
ATOM	3335	CE1	TYR	435	-5.777	47.354	5.616	1.00	6.51
ATOM	3336	CD2	TYR	435	-7.696	48.210	3.821	1.00	8.30
ATOM	3337	CE2	TYR	435	-7.239	46.903	3.764	1.00	11.80
ATOM	3338	CZ	TYR	435	-6.282	46.476	4.660	1.00	11.17
ATOM	3339	OH	TYR	435	-5.875	45.157	4.602	1.00	11.88
ATOM	3340	C	TYR	435	-7.868	52.665	3.630	1.00	8.61
ATOM	3341	O	TYR	435	-7.841	53.463	4.566	1.00	19.64
ATOM	3342	N	ARG	436	-8.596	52.846	2.535	1.00	11.08
ATOM	3343	CA	ARG	436	-9.367	54.072	2.357	1.00	15.72
ATOM	3344	CB	ARG	436	-9.185	54.572	0.921	1.00	23.63
ATOM	3345	CG	ARG	436	-7.729	54.709	0.489	1.00	25.88
ATOM	3346	CD	ARG	436	-7.601	54.993	-0.993	1.00	24.39
ATOM	3347	NE	ARG	436	-8.413	56.135	-1.398	1.00	22.74
ATOM	3348	CZ	ARG	436	-8.802	56.369	-2.646	1.00	27.43
ATOM	3349	NH1	ARG	436	-8.459	55.539	-3.626	1.00	19.20
ATOM	3350	NH2	ARG	436	-9.535	57.442	-2.918	1.00	37.52
ATOM	3351	C	ARG	436	-10.864	53.986	2.698	1.00	14.11
ATOM	3352	O	ARG	436	-11.582	53.171	2.121	1.00	16.12
ATOM	3353	N	ALA	437	-11.335	54.827	3.616	1.00	8.19
ATOM	3354	CA	ALA	437	-12.757	54.835	3.972	1.00	11.63
ATOM	3355	CB	ALA	437	-13.034	55.805	5.098	1.00	3.21
ATOM	3356	C	ALA	437	-13.604	55.228	2.770	1.00	21.32
ATOM	3357	O	ALA	437	-13.323	56.235	2.114	1.00	26.61
ATOM	3358	N	ARG	438	-14.643	54.436	2.500	1.00	27.90

ATOM	3359	CA	ARG	438	-15.562	54.685	1.392	1.00	21.19
ATOM	3360	CB	ARG	438	-16.040	53.368	0.803	1.00	16.47
ATOM	3361	CG	ARG	438	-14.962	52.658	0.035	1.00	27.93
ATOM	3362	CD	ARG	438	-15.332	51.219	-0.240	1.00	34.90
ATOM	3363	NE	ARG	438	-16.587	51.088	-0.964	1.00	35.14
ATOM	3364	CZ	ARG	438	-17.408	50.055	-0.842	1.00	35.04
ATOM	3365	NH1	ARG	438	-17.104	49.059	-0.020	1.00	39.57
ATOM	3366	NH2	ARG	438	-18.536	50.019	-1.534	1.00	31.35
ATOM	3367	C	ARG	438	-16.755	55.509	1.853	1.00	23.34
ATOM	3368	O	ARG	438	-17.150	55.439	3.018	1.00	19.73
ATOM	3369	N	PRO	439	-17.297	56.353	0.956	1.00	23.73
ATOM	3370	CD	PRO	439	-16.625	56.717	-0.305	1.00	34.20
ATOM	3371	CA	PRO	439	-18.445	57.236	1.191	1.00	27.14
ATOM	3372	CB	PRO	439	-18.487	58.078	-0.087	1.00	32.88
ATOM	3373	CG	PRO	439	-17.036	58.162	-0.480	1.00	33.75
ATOM	3374	C	PRO	439	-19.768	56.510	1.445	1.00	23.12
ATOM	3375	O	PRO	439	-20.231	55.726	0.626	1.00	23.55
ATOM	3376	N	VAL	440	-20.401	56.841	2.564	1.00	18.74
ATOM	3377	CA	VAL	440	-21.647	56.212	2.973	1.00	20.47
ATOM	3378	CB	VAL	440	-21.665	56.022	4.515	1.00	21.49
ATOM	3379	CG1	VAL	440	-22.891	55.256	4.953	1.00	22.66
ATOM	3380	CG2	VAL	440	-20.410	55.313	4.976	1.00	22.02
ATOM	3381	C	VAL	440	-22.930	56.940	2.557	1.00	21.72
ATOM	3382	O	VAL	440	-23.163	58.088	2.954	1.00	19.31
ATOM	3383	N	ILE	441	-23.792	56.214	1.839	1.00	27.31
ATOM	3384	CA	ILE	441	-25.088	56.713	1.369	1.00	26.23
ATOM	3385	CB	ILE	441	-25.370	56.285	-0.064	1.00	25.92
ATOM	3386	CG2	ILE	441	-26.601	56.991	-0.580	1.00	27.25
ATOM	3387	CG1	ILE	441	-24.174	56.546	-0.958	1.00	32.83
ATOM	3388	CD1	ILE	441	-24.355	55.956	-2.327	1.00	40.59
ATOM	3389	C	ILE	441	-26.253	56.103	2.138	1.00	23.47
ATOM	3390	O	ILE	441	-26.343	54.886	2.275	1.00	21.35
ATOM	3391	N	THR	442	-27.172	56.936	2.597	1.00	28.09
ATOM	3392	CA	THR	442	-28.356	56.419	3.279	1.00	39.27
ATOM	3393	CB	THR	442	-28.521	57.002	4.711	1.00	32.65
ATOM	3394	OG1	THR	442	-28.740	58.415	4.649	1.00	34.08
ATOM	3395	CG2	THR	442	-27.277	56.730	5.536	1.00	18.22
ATOM	3396	C	THR	442	-29.555	56.751	2.374	1.00	45.88
ATOM	3397	O	THR	442	-29.955	57.915	2.250	1.00	47.61
ATOM	3398	N	VAL	443	-30.063	55.727	1.682	1.00	49.91
ATOM	3399	CA	VAL	443	-31.186	55.873	0.745	1.00	57.40
ATOM	3400	CB	VAL	443	-30.895	55.118	-0.580	1.00	52.99
ATOM	3401	CG1	VAL	443	-30.696	53.634	-0.312	1.00	60.02
ATOM	3402	CG2	VAL	443	-32.017	55.324	-1.574	1.00	50.69
ATOM	3403	C	VAL	443	-32.558	55.430	1.283	1.00	60.63
ATOM	3404	O	VAL	443	-32.684	54.369	1.908	1.00	66.76
ATOM	3405	N	ASN	444	-33.579	56.248	1.018	1.00	55.69
ATOM	3406	CA	ASN	444	-34.953	55.978	1.447	1.00	55.35
ATOM	3407	CB	ASN	444	-35.656	57.276	1.852	1.00	56.95
ATOM	3408	CG	ASN	444	-35.636	57.519	3.343	1.00	53.86
ATOM	3409	OD1	ASN	444	-34.580	57.754	3.938	1.00	51.03
ATOM	3410	ND2	ASN	444	-36.815	57.504	3.953	1.00	50.51
ATOM	3411	C	ASN	444	-35.768	55.323	0.338	1.00	53.31
ATOM	3412	O	ASN	444	-35.830	55.827	-0.783	1.00	52.62
ATOM	3413	N	ALA	445	-36.415	54.211	0.658	1.00	52.97
ATOM	3414	CA	ALA	445	-37.232	53.522	-0.325	1.00	47.03
ATOM	3415	CB	ALA	445	-37.207	52.021	-0.076	1.00	45.82

ATOM	3416	C	ALA	445	-38.661	54.048	-0.279	1.00	41.90
ATOM	3417	O	ALA	445	-39.111	54.583	0.738	1.00	39.08
ATOM	3418	N	GLY	446	-39.351	53.926	-1.405	1.00	41.95
ATOM	3419	CA	GLY	446	-40.731	54.363	-1.494	1.00	42.39
ATOM	3420	C	GLY	446	-41.504	53.367	-2.334	1.00	45.61
ATOM	3421	O	GLY	446	-41.013	52.926	-3.377	1.00	41.88
ATOM	3422	N	LEU	447	-42.690	52.976	-1.870	1.00	44.45
ATOM	3423	CA	LEU	447	-43.516	52.023	-2.605	1.00	42.24
ATOM	3424	CB	LEU	447	-42.996	50.595	-2.425	1.00	33.52
ATOM	3425	CG	LEU	447	-43.814	49.491	-3.108	1.00	20.41
ATOM	3426	CD1	LEU	447	-43.360	49.289	-4.546	1.00	15.79
ATOM	3427	CD2	LEU	447	-43.663	48.203	-2.332	1.00	20.88
ATOM	3428	C	LEU	447	-44.967	52.075	-2.165	1.00	48.96
ATOM	3429	O	LEU	447	-45.276	51.857	-0.990	1.00	48.66
ATOM	3430	N	GLU	448	-45.852	52.353	-3.119	1.00	56.14
ATOM	3431	CA	GLU	448	-47.286	52.410	-2.859	1.00	61.72
ATOM	3432	CB	GLU	448	-47.713	53.786	-2.337	1.00	65.62
ATOM	3433	CG	GLU	448	-47.479	54.000	-0.846	1.00	81.64
ATOM	3434	CD	GLU	448	-48.133	52.938	0.038	1.00	88.90
ATOM	3435	OE1	GLU	448	-49.131	52.310	-0.390	1.00	93.09
ATOM	3436	OE2	GLU	448	-47.646	52.738	1.173	1.00	94.41
ATOM	3437	C	GLU	448	-48.135	52.052	-4.071	1.00	60.98
ATOM	3438	O	GLU	448	-47.933	52.584	-5.166	1.00	60.76
ATOM	3439	N	VAL	449	-49.052	51.106	-3.871	1.00	62.68
ATOM	3440	CA	VAL	449	-49.977	50.676	-4.916	1.00	60.48
ATOM	3441	CB	VAL	449	-50.262	49.157	-4.850	1.00	62.47
ATOM	3442	CG1	VAL	449	-50.628	48.744	-3.436	1.00	66.98
ATOM	3443	CG2	VAL	449	-51.378	48.791	-5.816	1.00	63.85
ATOM	3444	C	VAL	449	-51.261	51.478	-4.701	1.00	60.70
ATOM	3445	O	VAL	449	-51.822	51.494	-3.598	1.00	54.71
ATOM	3446	N	TYR	450	-51.704	52.160	-5.753	1.00	61.57
ATOM	3447	CA	TYR	450	-52.884	53.004	-5.671	1.00	63.85
ATOM	3448	CB	TYR	450	-53.202	53.665	-7.020	1.00	70.49
ATOM	3449	CG	TYR	450	-52.183	54.675	-7.503	1.00	79.16
ATOM	3450	CD1	TYR	450	-52.029	54.926	-8.867	1.00	82.12
ATOM	3451	CE1	TYR	450	-51.092	55.847	-9.338	1.00	82.84
ATOM	3452	CD2	TYR	450	-51.370	55.379	-6.608	1.00	76.36
ATOM	3453	CE2	TYR	450	-50.427	56.307	-7.069	1.00	81.63
ATOM	3454	CZ	TYR	450	-50.292	56.534	-8.441	1.00	82.40
ATOM	3455	OH	TYR	450	-49.358	57.428	-8.921	1.00	77.80
ATOM	3456	C	TYR	450	-54.124	52.344	-5.084	1.00	63.45
ATOM	3457	O	TYR	450	-54.451	52.589	-3.921	1.00	65.03
ATOM	3458	N	PRO	451	-54.783	51.443	-5.835	1.00	60.74
ATOM	3459	CD	PRO	451	-54.568	51.029	-7.230	1.00	61.29
ATOM	3460	CA	PRO	451	-55.989	50.795	-5.309	1.00	59.41
ATOM	3461	CB	PRO	451	-56.402	49.882	-6.454	1.00	62.06
ATOM	3462	CG	PRO	451	-55.968	50.668	-7.647	1.00	64.79
ATOM	3463	C	PRO	451	-55.927	50.063	-3.962	1.00	58.73
ATOM	3464	O	PRO	451	-56.824	50.253	-3.141	1.00	61.87
ATOM	3465	N	SER	452	-54.892	49.256	-3.723	1.00	51.28
ATOM	3466	CA	SER	452	-54.758	48.510	-2.455	1.00	44.30
ATOM	3467	CB	SER	452	-54.872	49.451	-1.246	1.00	46.48
ATOM	3468	OG	SER	452	-55.145	48.731	-0.054	1.00	47.91
ATOM	3469	C	SER	452	-55.790	47.390	-2.332	1.00	39.86
ATOM	3470	O	SER	452	-55.434	46.214	-2.306	1.00	37.43
ATOM	3471	N	ILE	453	-57.054	47.779	-2.169	1.00	35.45
ATOM	3472	CA	ILE	453	-58.183	46.849	-2.078	1.00	30.43

ATOM	3473	CB	ILE	453	-59.296	47.404	-1.134	1.00	22.67
ATOM	3474	CG2	ILE	453	-60.583	46.634	-1.321	1.00	27.39
ATOM	3475	CG1	ILE	453	-58.851	47.338	0.334	1.00	23.70
ATOM	3476	CD1	ILE	453	-59.834	48.001	1.334	1.00	18.76
ATOM	3477	C	ILE	453	-58.729	46.702	-3.507	1.00	22.51
ATOM	3478	O	ILE	453	-59.588	47.477	-3.930	1.00	21.29
ATOM	3479	N	LEU	454	-58.179	45.744	-4.255	1.00	14.80
ATOM	3480	CA	LEU	454	-58.582	45.497	-5.640	1.00	18.93
ATOM	3481	CB	LEU	454	-57.563	44.591	-6.330	1.00	20.60
ATOM	3482	CG	LEU	454	-56.081	44.935	-6.199	1.00	19.99
ATOM	3483	CD1	LEU	454	-55.275	44.152	-7.216	1.00	14.61
ATOM	3484	CD2	LEU	454	-55.878	46.403	-6.424	1.00	25.94
ATOM	3485	C	LEU	454	-59.992	44.900	-5.809	1.00	30.18
ATOM	3486	O	LEU	454	-60.328	43.875	-5.210	1.00	35.18
ATOM	3487	N	ASN	455	-60.785	45.515	-6.684	1.00	32.10
ATOM	3488	CA	ASN	455	-62.155	45.083	-6.944	1.00	25.83
ATOM	3489	CB	ASN	455	-63.044	46.311	-7.065	1.00	26.92
ATOM	3490	CG	ASN	455	-64.490	45.969	-7.285	1.00	27.91
ATOM	3491	OD1	ASN	455	-64.842	45.247	-8.229	1.00	24.97
ATOM	3492	ND2	ASN	455	-65.356	46.513	-6.430	1.00	24.05
ATOM	3493	C	ASN	455	-62.286	44.212	-8.198	1.00	28.02
ATOM	3494	O	ASN	455	-62.346	44.717	-9.322	1.00	24.95
ATOM	3495	N	GLN	456	-62.398	42.910	-7.960	1.00	32.05
ATOM	3496	CA	GLN	456	-62.546	41.856	-8.972	1.00	33.14
ATOM	3497	CB	GLN	456	-63.224	40.653	-8.316	1.00	28.50
ATOM	3498	CG	GLN	456	-62.328	39.780	-7.502	1.00	24.32
ATOM	3499	CD	GLN	456	-61.828	38.608	-8.304	1.00	31.63
ATOM	3500	OE1	GLN	456	-60.846	38.710	-9.050	1.00	34.87
ATOM	3501	NE2	GLN	456	-62.518	37.480	-8.174	1.00	39.90
ATOM	3502	C	GLN	456	-63.342	42.174	-10.242	1.00	39.03
ATOM	3503	O	GLN	456	-62.826	42.063	-11.359	1.00	32.17
ATOM	3504	N	ASP	457	-64.621	42.486	-10.047	1.00	48.40
ATOM	3505	CA	ASP	457	-65.547	42.768	-11.135	1.00	52.20
ATOM	3506	CB	ASP	457	-66.949	42.292	-10.744	1.00	60.96
ATOM	3507	CG	ASP	457	-67.681	41.605	-11.891	1.00	69.72
ATOM	3508	OD1	ASP	457	-67.608	40.353	-11.984	1.00	63.88
ATOM	3509	OD2	ASP	457	-68.337	42.320	-12.687	1.00	73.25
ATOM	3510	C	ASP	457	-65.591	44.226	-11.561	1.00	55.68
ATOM	3511	O	ASP	457	-66.669	44.774	-11.800	1.00	55.37
ATOM	3512	N	ASN	458	-64.422	44.857	-11.647	1.00	64.62
ATOM	3513	CA	ASN	458	-64.341	46.247	-12.077	1.00	69.52
ATOM	3514	CB	ASN	458	-63.578	47.117	-11.070	1.00	73.00
ATOM	3515	CG	ASN	458	-63.662	48.614	-11.401	1.00	81.63
ATOM	3516	OD1	ASN	458	-64.272	49.011	-12.392	1.00	86.10
ATOM	3517	ND2	ASN	458	-63.071	49.449	-10.552	1.00	87.55
ATOM	3518	C	ASN	458	-63.689	46.370	-13.449	1.00	70.19
ATOM	3519	O	ASN	458	-62.642	45.778	-13.722	1.00	67.74
ATOM	3520	N	LYS	459	-64.330	47.159	-14.303	1.00	73.10
ATOM	3521	CA	LYS	459	-63.852	47.416	-15.653	1.00	71.55
ATOM	3522	CB	LYS	459	-64.951	48.104	-16.481	1.00	79.21
ATOM	3523	CG	LYS	459	-66.285	47.346	-16.537	1.00	81.14
ATOM	3524	CD	LYS	459	-67.264	48.012	-17.496	1.00	83.54
ATOM	3525	CE	LYS	459	-66.730	48.007	-18.929	1.00	85.13
ATOM	3526	NZ	LYS	459	-67.590	48.759	-19.896	1.00	84.63
ATOM	3527	C	LYS	459	-62.595	48.292	-15.587	1.00	66.37
ATOM	3528	O	LYS	459	-61.636	47.944	-14.899	1.00	67.22
ATOM	3529	N	THR	460	-62.630	49.436	-16.273	1.00	61.04

ATOM	3530	CA	THR	460	-61.524	50.397	-16.346	1.00	53.82
ATOM	3531	CB	THR	460	-61.151	51.002	-14.959	1.00	56.21
ATOM	3532	OG1	THR	460	-60.557	50.005	-14.116	1.00	60.20
ATOM	3533	CG2	THR	460	-62.388	51.566	-14.273	1.00	54.11
ATOM	3534	C	THR	460	-60.281	49.836	-17.037	1.00	48.77
ATOM	3535	O	THR	460	-60.087	48.631	-17.099	1.00	42.48
ATOM	3536	N	CYS	461	-59.466	50.735	-17.580	1.00	53.85
ATOM	3537	CA	CYS	461	-58.227	50.418	-18.306	1.00	59.09
ATOM	3538	C	CYS	461	-58.202	49.138	-19.146	1.00	52.72
ATOM	3539	O	CYS	461	-58.358	48.026	-18.645	1.00	45.18
ATOM	3540	CB	CYS	461	-56.988	50.530	-17.396	1.00	68.85
ATOM	3541	SG	CYS	461	-56.298	48.996	-16.682	1.00	84.61
ATOM	3542	N	SER	462	-57.992	49.316	-20.442	1.00	53.83
ATOM	3543	CA	SER	462	-57.967	48.195	-21.362	1.00	59.91
ATOM	3544	CB	SER	462	-58.306	48.653	-22.782	1.00	67.82
ATOM	3545	OG	SER	462	-59.687	48.959	-22.912	1.00	75.90
ATOM	3546	C	SER	462	-56.671	47.416	-21.365	1.00	59.18
ATOM	3547	O	SER	462	-55.612	47.935	-21.026	1.00	62.71
ATOM	3548	N	LEU	463	-56.783	46.161	-21.773	1.00	57.52
ATOM	3549	CA	LEU	463	-55.669	45.240	-21.859	1.00	61.94
ATOM	3550	CB	LEU	463	-56.238	43.839	-22.036	1.00	62.64
ATOM	3551	CG	LEU	463	-55.495	42.627	-21.495	1.00	66.00
ATOM	3552	CD1	LEU	463	-55.510	42.671	-19.975	1.00	65.62
ATOM	3553	CD2	LEU	463	-56.169	41.365	-22.003	1.00	71.12
ATOM	3554	C	LEU	463	-54.817	45.601	-23.076	1.00	66.97
ATOM	3555	O	LEU	463	-55.296	46.258	-23.996	1.00	68.22
ATOM	3556	N	PRO	464	-53.534	45.189	-23.091	1.00	75.94
ATOM	3557	CD	PRO	464	-52.802	44.526	-21.996	1.00	81.92
ATOM	3558	CA	PRO	464	-52.629	45.475	-24.212	1.00	78.54
ATOM	3559	CB	PRO	464	-51.272	45.008	-23.680	1.00	82.29
ATOM	3560	CG	PRO	464	-51.640	43.902	-22.728	1.00	83.95
ATOM	3561	C	PRO	464	-52.998	44.760	-25.519	1.00	80.79
ATOM	3562	O	PRO	464	-53.337	45.415	-26.509	1.00	82.92
ATOM	3563	N	GLY	465	-52.935	43.426	-25.515	1.00	78.22
ATOM	3564	CA	GLY	465	-53.258	42.643	-26.703	1.00	78.01
ATOM	3565	C	GLY	465	-54.668	42.828	-27.254	1.00	76.21
ATOM	3566	O	GLY	465	-54.857	42.919	-28.468	1.00	75.86
ATOM	3567	N	THR	466	-55.653	42.861	-26.361	1.00	74.99
ATOM	3568	CA	THR	466	-57.055	43.041	-26.731	1.00	72.98
ATOM	3569	CB	THR	466	-57.845	41.726	-26.577	1.00	74.95
ATOM	3570	OG1	THR	466	-57.529	41.126	-25.313	1.00	75.60
ATOM	3571	CG2	THR	466	-57.506	40.753	-27.696	1.00	75.47
ATOM	3572	C	THR	466	-57.656	44.088	-25.800	1.00	68.93
ATOM	3573	O	THR	466	-57.342	44.108	-24.616	1.00	65.42
ATOM	3574	N	ALA	467	-58.528	44.944	-26.328	1.00	72.46
ATOM	3575	CA	ALA	467	-59.152	46.003	-25.527	1.00	73.09
ATOM	3576	CB	ALA	467	-59.640	47.140	-26.426	1.00	74.05
ATOM	3577	C	ALA	467	-60.275	45.540	-24.587	1.00	75.37
ATOM	3578	O	ALA	467	-61.467	45.743	-24.854	1.00	70.88
ATOM	3579	N	LEU	468	-59.870	44.929	-23.475	1.00	71.12
ATOM	3580	CA	LEU	468	-60.795	44.433	-22.464	1.00	65.39
ATOM	3581	CB	LEU	468	-60.503	42.958	-22.158	1.00	59.91
ATOM	3582	CG	LEU	468	-60.175	42.072	-23.364	1.00	55.59
ATOM	3583	CD1	LEU	468	-59.840	40.660	-22.936	1.00	57.12
ATOM	3584	CD2	LEU	468	-61.333	42.069	-24.328	1.00	57.04
ATOM	3585	C	LEU	468	-60.565	45.278	-21.219	1.00	65.37
ATOM	3586	O	LEU	468	-59.428	45.612	-20.892	1.00	67.93

ATOM	3587	N	LYS	469	-61.640	45.626	-20.531	1.00	65.65
ATOM	3588	CA	LYS	469	-61.548	46.448	-19.329	1.00	72.26
ATOM	3589	CB	LYS	469	-62.823	47.290	-19.173	1.00	75.46
ATOM	3590	CG	LYS	469	-63.104	48.286	-20.312	1.00	81.46
ATOM	3591	CD	LYS	469	-63.404	47.603	-21.657	1.00	88.16
ATOM	3592	CE	LYS	469	-64.619	46.673	-21.585	1.00	89.15
ATOM	3593	NZ	LYS	469	-64.810	45.895	-22.843	1.00	83.30
ATOM	3594	C	LYS	469	-61.291	45.610	-18.065	1.00	71.19
ATOM	3595	O	LYS	469	-62.215	45.312	-17.297	1.00	72.52
ATOM	3596	N	VAL	470	-60.025	45.259	-17.843	1.00	67.48
ATOM	3597	CA	VAL	470	-59.621	44.452	-16.687	1.00	66.42
ATOM	3598	CB	VAL	470	-58.285	43.720	-16.981	1.00	64.46
ATOM	3599	CG1	VAL	470	-57.195	44.720	-17.299	1.00	62.96
ATOM	3600	CG2	VAL	470	-57.892	42.809	-15.818	1.00	65.73
ATOM	3601	C	VAL	470	-59.515	45.266	-15.387	1.00	62.36
ATOM	3602	O	VAL	470	-59.337	46.480	-15.436	1.00	63.86
ATOM	3603	N	SER	471	-59.646	44.599	-14.236	1.00	60.77
ATOM	3604	CA	SER	471	-59.564	45.268	-12.932	1.00	58.43
ATOM	3605	CB	SER	471	-59.903	44.304	-11.802	1.00	53.42
ATOM	3606	OG	SER	471	-60.178	45.026	-10.621	1.00	49.17
ATOM	3607	C	SER	471	-58.174	45.875	-12.734	1.00	60.49
ATOM	3608	O	SER	471	-57.195	45.179	-12.426	1.00	53.89
ATOM	3609	N	CYS	472	-58.136	47.198	-12.878	1.00	66.56
ATOM	3610	CA	CYS	472	-56.919	48.007	-12.823	1.00	64.48
ATOM	3611	C	CYS	472	-56.406	48.549	-11.495	1.00	61.52
ATOM	3612	O	CYS	472	-57.175	48.955	-10.618	1.00	60.87
ATOM	3613	CB	CYS	472	-57.097	49.197	-13.761	1.00	69.72
ATOM	3614	SG	CYS	472	-55.665	49.540	-14.821	1.00	84.81
ATOM	3615	N	PHE	473	-55.081	48.595	-11.391	1.00	56.11
ATOM	3616	CA	PHE	473	-54.405	49.153	-10.227	1.00	50.35
ATOM	3617	CB	PHE	473	-54.414	48.213	-9.001	1.00	50.54
ATOM	3618	CG	PHE	473	-53.475	47.047	-9.080	1.00	49.56
ATOM	3619	CD1	PHE	473	-52.238	47.104	-8.466	1.00	45.97
ATOM	3620	CD2	PHE	473	-53.854	45.869	-9.715	1.00	50.45
ATOM	3621	CE1	PHE	473	-51.393	46.008	-8.478	1.00	49.71
ATOM	3622	CE2	PHE	473	-53.014	44.764	-9.733	1.00	45.59
ATOM	3623	CZ	PHE	473	-51.784	44.832	-9.116	1.00	49.25
ATOM	3624	C	PHE	473	-53.013	49.612	-10.623	1.00	50.03
ATOM	3625	O	PHE	473	-52.404	49.054	-11.537	1.00	43.51
ATOM	3626	N	ASN	474	-52.565	50.712	-10.026	1.00	54.51
ATOM	3627	CA	ASN	474	-51.250	51.246	-10.353	1.00	61.18
ATOM	3628	CB	ASN	474	-51.370	52.636	-10.972	1.00	64.94
ATOM	3629	CG	ASN	474	-52.340	52.670	-12.140	1.00	74.79
ATOM	3630	OD1	ASN	474	-53.453	53.195	-12.024	1.00	81.90
ATOM	3631	ND2	ASN	474	-51.936	52.089	-13.267	1.00	73.32
ATOM	3632	C	ASN	474	-50.317	51.250	-9.155	1.00	62.81
ATOM	3633	O	ASN	474	-50.756	51.303	-8.003	1.00	59.87
ATOM	3634	N	VAL	475	-49.022	51.204	-9.445	1.00	60.99
ATOM	3635	CA	VAL	475	-48.001	51.149	-8.411	1.00	56.58
ATOM	3636	CB	VAL	475	-47.528	49.678	-8.251	1.00	53.36
ATOM	3637	CG1	VAL	475	-47.195	49.074	-9.612	1.00	43.84
ATOM	3638	CG2	VAL	475	-46.347	49.591	-7.321	1.00	56.23
ATOM	3639	C	VAL	475	-46.808	52.094	-8.659	1.00	58.92
ATOM	3640	O	VAL	475	-46.118	51.994	-9.679	1.00	58.45
ATOM	3641	N	ARG	476	-46.593	53.025	-7.729	1.00	57.09
ATOM	3642	CA	ARG	476	-45.490	53.984	-7.833	1.00	55.73
ATOM	3643	CB	ARG	476	-45.991	55.436	-7.687	1.00	58.27

ATOM	3644	CG	ARG	476	-46.146	55.958	-6.247	1.00	61.46
ATOM	3645	CD	ARG	476	-46.809	57.339	-6.210	1.00	64.30
ATOM	3646	NE	ARG	476	-46.301	58.225	-7.258	1.00	73.94
ATOM	3647	CZ	ARG	476	-46.710	59.476	-7.458	1.00	79.61
ATOM	3648	NH1	ARG	476	-47.642	60.013	-6.677	1.00	85.02
ATOM	3649	NH2	ARG	476	-46.204	60.186	-8.458	1.00	80.20
ATOM	3650	C	ARG	476	-44.420	53.683	-6.790	1.00	52.58
ATOM	3651	O	ARG	476	-44.707	53.141	-5.720	1.00	50.12
ATOM	3652	N	PHE	477	-43.189	54.070	-7.095	1.00	50.12
ATOM	3653	CA	PHE	477	-42.083	53.827	-6.189	1.00	49.83
ATOM	3654	CB	PHE	477	-41.381	52.520	-6.563	1.00	49.03
ATOM	3655	CG	PHE	477	-41.129	52.358	-8.033	1.00	44.47
ATOM	3656	CD1	PHE	477	-39.833	52.333	-8.527	1.00	49.39
ATOM	3657	CD2	PHE	477	-42.182	52.186	-8.916	1.00	44.85
ATOM	3658	CE1	PHE	477	-39.587	52.135	-9.888	1.00	50.86
ATOM	3659	CE2	PHE	477	-41.949	51.988	-10.276	1.00	51.11
ATOM	3660	CZ	PHE	477	-40.646	51.960	-10.763	1.00	48.51
ATOM	3661	C	PHE	477	-41.077	54.961	-6.097	1.00	48.70
ATOM	3662	O	PHE	477	-40.098	54.990	-6.838	1.00	46.36
ATOM	3663	N	CYS	478	-41.321	55.884	-5.170	1.00	53.60
ATOM	3664	CA	CYS	478	-40.430	57.024	-4.950	1.00	61.51
ATOM	3665	C	CYS	478	-39.089	56.535	-4.388	1.00	62.32
ATOM	3666	O	CYS	478	-39.002	55.412	-3.882	1.00	58.80
ATOM	3667	CB	CYS	478	-41.076	58.027	-3.987	1.00	70.65
ATOM	3668	SG	CYS	478	-42.099	59.357	-4.726	1.00	86.17
ATOM	3669	N	LEU	479	-38.052	57.372	-4.472	1.00	64.75
ATOM	3670	CA	LEU	479	-36.724	56.990	-3.981	1.00	59.13
ATOM	3671	CB	LEU	479	-36.146	55.889	-4.888	1.00	53.11
ATOM	3672	CG	LEU	479	-35.005	55.019	-4.352	1.00	48.61
ATOM	3673	CD1	LEU	479	-35.511	54.096	-3.258	1.00	42.81
ATOM	3674	CD2	LEU	479	-34.410	54.208	-5.481	1.00	47.21
ATOM	3675	C	LEU	479	-35.714	58.149	-3.854	1.00	56.69
ATOM	3676	O	LEU	479	-35.205	58.649	-4.856	1.00	50.93
ATOM	3677	N	LYS	480	-35.409	58.537	-2.612	1.00	59.31
ATOM	3678	CA	LYS	480	-34.446	59.609	-2.313	1.00	62.23
ATOM	3679	CB	LYS	480	-35.058	60.630	-1.340	1.00	66.44
ATOM	3680	CG	LYS	480	-34.914	60.242	0.133	1.00	65.55
ATOM	3681	CD	LYS	480	-35.642	61.179	1.069	1.00	69.82
ATOM	3682	CE	LYS	480	-35.314	60.829	2.509	1.00	75.72
ATOM	3683	NZ	LYS	480	-36.220	61.485	3.487	1.00	79.84
ATOM	3684	C	LYS	480	-33.182	59.028	-1.660	1.00	62.27
ATOM	3685	O	LYS	480	-33.243	58.004	-0.978	1.00	59.70
ATOM	3686	N	ALA	481	-32.057	59.719	-1.811	1.00	62.16
ATOM	3687	CA	ALA	481	-30.801	59.260	-1.225	1.00	63.95
ATOM	3688	CB	ALA	481	-30.160	58.232	-2.117	1.00	67.18
ATOM	3689	C	ALA	481	-29.841	60.412	-1.010	1.00	65.60
ATOM	3690	O	ALA	481	-29.641	61.228	-1.908	1.00	66.97
ATOM	3691	N	ASP	482	-29.218	60.467	0.162	1.00	65.62
ATOM	3692	CA	ASP	482	-28.277	61.543	0.426	1.00	69.44
ATOM	3693	CB	ASP	482	-28.893	62.600	1.341	1.00	75.86
ATOM	3694	CG	ASP	482	-28.331	63.993	1.085	1.00	81.81
ATOM	3695	OD1	ASP	482	-28.566	64.883	1.928	1.00	87.99
ATOM	3696	OD2	ASP	482	-27.672	64.209	0.036	1.00	83.28
ATOM	3697	C	ASP	482	-26.946	61.084	0.994	1.00	65.83
ATOM	3698	O	ASP	482	-26.896	60.227	1.877	1.00	66.67
ATOM	3699	N	GLY	483	-25.873	61.679	0.476	1.00	64.54
ATOM	3700	CA	GLY	483	-24.526	61.355	0.916	1.00	57.21

ATOM	3701	C	GLY	483	-23.943	62.343	1.914	1.00	52.43
ATOM	3702	O	GLY	483	-24.665	63.146	2.515	1.00	51.99
ATOM	3703	N	LYS	484	-22.623	62.289	2.075	1.00	47.49
ATOM	3704	CA	LYS	484	-21.897	63.156	3.006	1.00	40.11
ATOM	3705	CB	LYS	484	-22.194	62.724	4.443	1.00	34.15
ATOM	3706	CG	LYS	484	-21.895	63.767	5.478	1.00	33.21
ATOM	3707	CD	LYS	484	-22.889	63.663	6.620	1.00	36.81
ATOM	3708	CE	LYS	484	-22.659	64.751	7.646	1.00	35.55
ATOM	3709	NZ	LYS	484	-23.833	64.905	8.542	1.00	33.82
ATOM	3710	C	LYS	484	-20.415	62.982	2.694	1.00	34.82
ATOM	3711	O	LYS	484	-19.808	61.995	3.086	1.00	33.78
ATOM	3712	N	GLY	485	-19.850	63.928	1.954	1.00	32.79
ATOM	3713	CA	GLY	485	-18.454	63.828	1.570	1.00	35.58
ATOM	3714	C	GLY	485	-18.386	63.871	0.059	1.00	37.36
ATOM	3715	O	GLY	485	-19.342	64.311	-0.585	1.00	37.08
ATOM	3716	N	VAL	486	-17.284	63.392	-0.514	1.00	35.95
ATOM	3717	CA	VAL	486	-17.123	63.392	-1.964	1.00	39.46
ATOM	3718	CB	VAL	486	-15.639	63.389	-2.362	1.00	38.56
ATOM	3719	CG1	VAL	486	-15.496	63.474	-3.873	1.00	44.85
ATOM	3720	CG2	VAL	486	-14.926	64.548	-1.706	1.00	42.39
ATOM	3721	C	VAL	486	-17.796	62.181	-2.593	1.00	48.98
ATOM	3722	O	VAL	486	-17.270	61.066	-2.490	1.00	54.59
ATOM	3723	N	LEU	487	-18.937	62.401	-3.256	1.00	53.15
ATOM	3724	CA	LEU	487	-19.686	61.313	-3.899	1.00	58.84
ATOM	3725	CB	LEU	487	-20.058	60.229	-2.868	1.00	57.65
ATOM	3726	CG	LEU	487	-21.302	60.396	-1.970	1.00	58.23
ATOM	3727	CD1	LEU	487	-21.770	59.040	-1.505	1.00	61.04
ATOM	3728	CD2	LEU	487	-21.059	61.315	-0.775	1.00	58.31
ATOM	3729	C	LEU	487	-20.959	61.619	-4.715	1.00	62.91
ATOM	3730	O	LEU	487	-21.182	60.986	-5.754	1.00	60.70
ATOM	3731	N	PRO	488	-21.799	62.591	-4.268	1.00	67.89
ATOM	3732	CD	PRO	488	-21.540	63.544	-3.164	1.00	66.52
ATOM	3733	CA	PRO	488	-23.054	62.958	-4.941	1.00	64.93
ATOM	3734	CB	PRO	488	-23.416	64.300	-4.286	1.00	62.94
ATOM	3735	CG	PRO	488	-22.919	64.134	-2.901	1.00	59.50
ATOM	3736	C	PRO	488	-23.153	63.023	-6.460	1.00	66.31
ATOM	3737	O	PRO	488	-22.322	62.482	-7.200	1.00	60.48
ATOM	3738	N	ARG	489	-24.240	63.661	-6.895	1.00	73.47
ATOM	3739	CA	ARG	489	-24.580	63.856	-8.299	1.00	75.73
ATOM	3740	CB	ARG	489	-23.363	64.328	-9.112	1.00	77.57
ATOM	3741	CG	ARG	489	-22.838	65.699	-8.692	1.00	83.72
ATOM	3742	CD	ARG	489	-23.933	66.769	-8.773	1.00	86.90
ATOM	3743	NE	ARG	489	-23.505	68.060	-8.235	1.00	86.88
ATOM	3744	CZ	ARG	489	-23.704	68.455	-6.980	1.00	86.00
ATOM	3745	NH1	ARG	489	-24.332	67.657	-6.122	1.00	81.84
ATOM	3746	NH2	ARG	489	-23.271	69.647	-6.579	1.00	83.74
ATOM	3747	C	ARG	489	-25.226	62.627	-8.934	1.00	75.68
ATOM	3748	O	ARG	489	-26.398	62.336	-8.681	1.00	70.19
ATOM	3749	N	LYS	490	-24.447	61.900	-9.731	1.00	77.49
ATOM	3750	CA	LYS	490	-24.927	60.715	-10.439	1.00	81.31
ATOM	3751	CB	LYS	490	-23.984	60.384	-11.600	1.00	86.56
ATOM	3752	CG	LYS	490	-22.497	60.383	-11.227	1.00	88.67
ATOM	3753	CD	LYS	490	-21.634	59.801	-12.343	1.00	89.78
ATOM	3754	CE	LYS	490	-21.620	58.272	-12.326	1.00	88.55
ATOM	3755	NZ	LYS	490	-22.961	57.631	-12.452	1.00	90.28
ATOM	3756	C	LYS	490	-25.169	59.461	-9.596	1.00	78.55
ATOM	3757	O	LYS	490	-24.248	58.671	-9.363	1.00	78.41

ATOM	3758	N	LEU	491	-26.415	59.272	-9.163	1.00	75.50
ATOM	3759	CA	LEU	491	-26.776	58.099	-8.373	1.00	72.48
ATOM	3760	CB	LEU	491	-27.496	58.495	-7.079	1.00	69.49
ATOM	3761	CG	LEU	491	-26.627	59.024	-5.926	1.00	65.54
ATOM	3762	CD1	LEU	491	-27.476	59.246	-4.682	1.00	55.60
ATOM	3763	CD2	LEU	491	-25.511	58.039	-5.619	1.00	59.84
ATOM	3764	C	LEU	491	-27.615	57.115	-9.187	1.00	74.47
ATOM	3765	O	LEU	491	-28.841	57.208	-9.233	1.00	72.03
ATOM	3766	N	ASN	492	-26.923	56.180	-9.832	1.00	75.16
ATOM	3767	CA	ASN	492	-27.527	55.147	-10.670	1.00	73.74
ATOM	3768	CB	ASN	492	-26.514	54.704	-11.733	1.00	76.60
ATOM	3769	CG	ASN	492	-25.097	54.517	-11.168	1.00	82.52
ATOM	3770	OD1	ASN	492	-24.916	54.093	-10.023	1.00	84.98
ATOM	3771	ND2	ASN	492	-24.087	54.833	-11.978	1.00	81.58
ATOM	3772	C	ASN	492	-28.023	53.938	-9.865	1.00	73.26
ATOM	3773	O	ASN	492	-27.272	53.343	-9.095	1.00	76.04
ATOM	3774	N	PHE	493	-29.286	53.570	-10.054	1.00	72.55
ATOM	3775	CA	PHE	493	-29.869	52.432	-9.341	1.00	70.04
ATOM	3776	CB	PHE	493	-30.958	52.909	-8.377	1.00	65.27
ATOM	3777	CG	PHE	493	-30.433	53.483	-7.091	1.00	61.32
ATOM	3778	CD1	PHE	493	-30.012	54.805	-7.019	1.00	57.41
ATOM	3779	CD2	PHE	493	-30.399	52.708	-5.935	1.00	62.35
ATOM	3780	CE1	PHE	493	-29.572	55.351	-5.812	1.00	52.83
ATOM	3781	CE2	PHE	493	-29.960	53.245	-4.722	1.00	57.69
ATOM	3782	CZ	PHE	493	-29.547	54.568	-4.664	1.00	52.69
ATOM	3783	C	PHE	493	-30.437	51.344	-10.260	1.00	69.13
ATOM	3784	O	PHE	493	-30.483	51.504	-11.482	1.00	68.18
ATOM	3785	N	GLN	494	-30.870	50.241	-9.649	1.00	67.84
ATOM	3786	CA	GLN	494	-31.443	49.100	-10.363	1.00	68.75
ATOM	3787	CB	GLN	494	-30.378	48.019	-10.588	1.00	70.31
ATOM	3788	CG	GLN	494	-29.390	48.299	-11.710	1.00	77.32
ATOM	3789	CD	GLN	494	-29.990	48.114	-13.100	1.00	84.00
ATOM	3790	OE1	GLN	494	-29.265	47.925	-14.083	1.00	80.58
ATOM	3791	NE2	GLN	494	-31.320	48.162	-13.188	1.00	88.15
ATOM	3792	C	GLN	494	-32.608	48.498	-9.580	1.00	70.23
ATOM	3793	O	GLN	494	-32.572	47.322	-9.211	1.00	72.59
ATOM	3794	N	VAL	495	-33.638	49.302	-9.330	1.00	67.25
ATOM	3795	CA	VAL	495	-34.816	48.851	-8.587	1.00	64.06
ATOM	3796	CB	VAL	495	-35.746	50.054	-8.244	1.00	64.04
ATOM	3797	CG1	VAL	495	-36.050	50.852	-9.489	1.00	66.43
ATOM	3798	CG2	VAL	495	-37.039	49.588	-7.564	1.00	67.15
ATOM	3799	C	VAL	495	-35.581	47.720	-9.306	1.00	62.53
ATOM	3800	O	VAL	495	-35.582	47.643	-10.538	1.00	60.26
ATOM	3801	N	GLU	496	-36.210	46.846	-8.520	1.00	58.19
ATOM	3802	CA	GLU	496	-36.953	45.697	-9.036	1.00	53.06
ATOM	3803	CB	GLU	496	-36.081	44.447	-8.899	1.00	57.11
ATOM	3804	CG	GLU	496	-36.686	43.189	-9.460	1.00	65.47
ATOM	3805	CD	GLU	496	-36.710	43.211	-10.963	1.00	74.98
ATOM	3806	OE1	GLU	496	-37.817	43.269	-11.543	1.00	77.53
ATOM	3807	OE2	GLU	496	-35.615	43.181	-11.565	1.00	77.11
ATOM	3808	C	GLU	496	-38.283	45.467	-8.305	1.00	49.65
ATOM	3809	O	GLU	496	-38.339	45.476	-7.070	1.00	44.65
ATOM	3810	N	LEU	497	-39.340	45.219	-9.078	1.00	49.71
ATOM	3811	CA	LEU	497	-40.672	44.983	-8.517	1.00	51.62
ATOM	3812	CB	LEU	497	-41.679	46.020	-9.026	1.00	49.28
ATOM	3813	CG	LEU	497	-41.403	47.487	-8.697	1.00	51.93
ATOM	3814	CD1	LEU	497	-40.425	48.059	-9.718	1.00	51.06

ATOM	3815	CD2	LEU	497	-42.703	48.280	-8.709	1.00	48.45
ATOM	3816	C	LEU	497	-41.204	43.582	-8.797	1.00	48.35
ATOM	3817	O	LEU	497	-40.993	43.029	-9.879	1.00	47.44
ATOM	3818	N	LEU	498	-41.906	43.028	-7.808	1.00	45.81
ATOM	3819	CA	LEU	498	-42.486	41.691	-7.893	1.00	44.59
ATOM	3820	CB	LEU	498	-41.651	40.695	-7.088	1.00	48.73
ATOM	3821	CG	LEU	498	-40.133	40.716	-7.304	1.00	53.46
ATOM	3822	CD1	LEU	498	-39.474	39.762	-6.328	1.00	57.02
ATOM	3823	CD2	LEU	498	-39.770	40.366	-8.742	1.00	46.83
ATOM	3824	C	LEU	498	-43.898	41.740	-7.333	1.00	45.43
ATOM	3825	O	LEU	498	-44.117	42.211	-6.211	1.00	37.77
ATOM	3826	N	LEU	499	-44.841	41.206	-8.109	1.00	45.00
ATOM	3827	CA	LEU	499	-46.258	41.200	-7.747	1.00	48.29
ATOM	3828	CB	LEU	499	-47.078	41.524	-8.991	1.00	46.15
ATOM	3829	CG	LEU	499	-46.649	42.830	-9.663	1.00	42.94
ATOM	3830	CD1	LEU	499	-47.221	42.922	-11.062	1.00	44.83
ATOM	3831	CD2	LEU	499	-47.082	44.010	-8.810	1.00	41.22
ATOM	3832	C	LEU	499	-46.759	39.907	-7.102	1.00	50.10
ATOM	3833	O	LEU	499	-46.554	38.815	-7.640	1.00	50.50
ATOM	3834	N	ASP	500	-47.455	40.053	-5.971	1.00	53.35
ATOM	3835	CA	ASP	500	-47.989	38.920	-5.209	1.00	59.53
ATOM	3836	CB	ASP	500	-49.149	38.250	-5.966	1.00	61.82
ATOM	3837	CG	ASP	500	-49.890	37.208	-5.127	1.00	62.30
ATOM	3838	OD1	ASP	500	-50.485	36.296	-5.739	1.00	56.60
ATOM	3839	OD2	ASP	500	-49.888	37.295	-3.872	1.00	57.97
ATOM	3840	C	ASP	500	-46.853	37.930	-4.980	1.00	59.00
ATOM	3841	O	ASP	500	-46.786	36.881	-5.624	1.00	55.86
ATOM	3842	N	LYS	501	-45.926	38.301	-4.100	1.00	61.50
ATOM	3843	CA	LYS	501	-44.778	37.454	-3.824	1.00	65.53
ATOM	3844	CB	LYS	501	-43.537	38.288	-3.487	1.00	68.32
ATOM	3845	CG	LYS	501	-42.221	37.523	-3.687	1.00	73.21
ATOM	3846	CD	LYS	501	-42.150	36.901	-5.093	1.00	72.59
ATOM	3847	CE	LYS	501	-41.026	35.873	-5.229	1.00	70.74
ATOM	3848	NZ	LYS	501	-39.678	36.451	-4.950	1.00	72.28
ATOM	3849	C	LYS	501	-45.035	36.403	-2.760	1.00	67.62
ATOM	3850	O	LYS	501	-44.140	35.622	-2.423	1.00	71.80
ATOM	3851	N	LEU	502	-46.249	36.385	-2.215	1.00	65.94
ATOM	3852	CA	LEU	502	-46.590	35.367	-1.228	1.00	67.48
ATOM	3853	CB	LEU	502	-47.996	35.594	-0.670	1.00	61.96
ATOM	3854	CG	LEU	502	-48.075	36.541	0.521	1.00	59.35
ATOM	3855	CD1	LEU	502	-49.469	36.495	1.140	1.00	55.46
ATOM	3856	CD2	LEU	502	-47.033	36.119	1.537	1.00	55.35
ATOM	3857	C	LEU	502	-46.518	34.002	-1.926	1.00	68.75
ATOM	3858	O	LEU	502	-46.263	32.976	-1.291	1.00	71.81
ATOM	3859	N	LYS	503	-46.716	34.018	-3.244	1.00	64.28
ATOM	3860	CA	LYS	503	-46.671	32.822	-4.067	1.00	64.41
ATOM	3861	CB	LYS	503	-47.489	33.024	-5.351	1.00	61.56
ATOM	3862	CG	LYS	503	-48.940	33.471	-5.141	1.00	58.87
ATOM	3863	CD	LYS	503	-49.743	32.492	-4.287	1.00	56.13
ATOM	3864	CE	LYS	503	-51.180	32.962	-4.094	1.00	53.47
ATOM	3865	NZ	LYS	503	-51.958	32.105	-3.153	1.00	49.71
ATOM	3866	C	LYS	503	-45.224	32.484	-4.429	1.00	72.68
ATOM	3867	O	LYS	503	-44.482	33.335	-4.924	1.00	72.91
ATOM	3868	N	GLN	504	-44.833	31.239	-4.157	1.00	79.18
ATOM	3869	CA	GLN	504	-43.487	30.742	-4.444	1.00	84.04
ATOM	3870	CB	GLN	504	-43.117	29.599	-3.481	1.00	86.26
ATOM	3871	CG	GLN	504	-43.147	29.927	-1.994	1.00	93.83

ATOM	3872	CD	GLN	504	-42.789	28.723	-1.118	1.00	99.38
ATOM	3873	OE1	GLN	504	-43.186	28.652	0.049	1.00	99.78
ATOM	3874	NE2	GLN	504	-42.036	27.777	-1.679	1.00	98.98
ATOM	3875	C	GLN	504	-43.405	30.214	-5.880	1.00	82.69
ATOM	3876	O	GLN	504	-43.660	30.935	-6.853	1.00	77.69
ATOM	3877	N	LYS	505	-43.045	28.936	-5.984	1.00	83.31
ATOM	3878	CA	LYS	505	-42.916	28.238	-7.251	1.00	87.14
ATOM	3879	CB	LYS	505	-42.022	27.007	-7.065	1.00	84.19
ATOM	3880	CG	LYS	505	-40.559	27.334	-6.798	1.00	81.33
ATOM	3881	CD	LYS	505	-39.877	27.870	-8.053	1.00	82.72
ATOM	3882	CE	LYS	505	-39.828	26.808	-9.155	1.00	81.85
ATOM	3883	NZ	LYS	505	-39.118	27.270	-10.385	1.00	79.01
ATOM	3884	C	LYS	505	-44.290	27.816	-7.783	1.00	88.61
ATOM	3885	O	LYS	505	-44.423	27.453	-8.956	1.00	89.57
ATOM	3886	N	GLY	506	-45.303	27.892	-6.916	1.00	89.78
ATOM	3887	CA	GLY	506	-46.665	27.526	-7.275	1.00	90.22
ATOM	3888	C	GLY	506	-47.143	28.097	-8.598	1.00	92.10
ATOM	3889	O	GLY	506	-47.976	27.482	-9.268	1.00	94.49
ATOM	3890	N	ALA	507	-46.606	29.264	-8.964	1.00	94.71
ATOM	3891	CA	ALA	507	-46.915	29.976	-10.213	1.00	93.00
ATOM	3892	CB	ALA	507	-46.703	29.056	-11.421	1.00	93.78
ATOM	3893	C	ALA	507	-48.285	30.670	-10.293	1.00	92.39
ATOM	3894	O	ALA	507	-48.761	31.003	-11.387	1.00	91.41
ATOM	3895	N	ILE	508	-48.901	30.911	-9.138	1.00	89.00
ATOM	3896	CA	ILE	508	-50.202	31.578	-9.085	1.00	85.77
ATOM	3897	CB	ILE	508	-51.053	31.077	-7.876	1.00	89.86
ATOM	3898	CG2	ILE	508	-52.534	31.442	-8.073	1.00	86.14
ATOM	3899	CG1	ILE	508	-50.918	29.558	-7.724	1.00	93.44
ATOM	3900	CD1	ILE	508	-51.583	28.993	-6.480	1.00	97.24
ATOM	3901	C	ILE	508	-49.971	33.093	-8.967	1.00	84.12
ATOM	3902	O	ILE	508	-50.377	33.727	-7.986	1.00	85.33
ATOM	3903	N	ARG	509	-49.266	33.657	-9.947	1.00	73.68
ATOM	3904	CA	ARG	509	-48.985	35.086	-9.959	1.00	61.55
ATOM	3905	CB	ARG	509	-47.916	35.410	-10.999	1.00	66.94
ATOM	3906	CG	ARG	509	-46.578	34.740	-10.720	1.00	73.65
ATOM	3907	CD	ARG	509	-45.974	35.221	-9.407	1.00	76.57
ATOM	3908	NE	ARG	509	-44.977	34.282	-8.900	1.00	81.34
ATOM	3909	CZ	ARG	509	-44.304	34.435	-7.762	1.00	80.95
ATOM	3910	NH1	ARG	509	-44.506	35.503	-6.998	1.00	78.80
ATOM	3911	NH2	ARG	509	-43.449	33.500	-7.370	1.00	75.12
ATOM	3912	C	ARG	509	-50.289	35.769	-10.303	1.00	53.97
ATOM	3913	O	ARG	509	-50.587	36.002	-11.472	1.00	54.04
ATOM	3914	N	ARG	510	-51.080	36.035	-9.263	1.00	44.48
ATOM	3915	CA	ARG	510	-52.395	36.661	-9.381	1.00	31.80
ATOM	3916	CB	ARG	510	-53.071	36.731	-8.005	1.00	32.68
ATOM	3917	CG	ARG	510	-53.757	35.427	-7.576	1.00	25.62
ATOM	3918	CD	ARG	510	-53.550	35.132	-6.102	1.00	18.04
ATOM	3919	NE	ARG	510	-53.772	36.302	-5.256	1.00	25.03
ATOM	3920	CZ	ARG	510	-53.589	36.320	-3.939	1.00	26.42
ATOM	3921	NH1	ARG	510	-53.173	35.229	-3.314	1.00	31.61
ATOM	3922	NH2	ARG	510	-53.848	37.419	-3.238	1.00	25.84
ATOM	3923	C	ARG	510	-52.431	38.022	-10.056	1.00	28.00
ATOM	3924	O	ARG	510	-53.435	38.375	-10.658	1.00	25.49
ATOM	3925	N	ALA	511	-51.346	38.785	-9.949	1.00	29.76
ATOM	3926	CA	ALA	511	-51.261	40.108	-10.573	1.00	27.16
ATOM	3927	CB	ALA	511	-50.993	41.183	-9.523	1.00	27.98
ATOM	3928	C	ALA	511	-50.181	40.136	-11.656	1.00	28.96

ATOM	3929	O	ALA	511	-49.190	39.401	-11.586	1.00	21.79
ATOM	3930	N	LEU	512	-50.380	40.990	-12.658	1.00	36.50
ATOM	3931	CA	LEU	512	-49.440	41.110	-13.771	1.00	43.19
ATOM	3932	CB	LEU	512	-49.911	40.224	-14.939	1.00	47.30
ATOM	3933	CG	LEU	512	-50.286	38.757	-14.672	1.00	46.81
ATOM	3934	CD1	LEU	512	-51.013	38.173	-15.871	1.00	46.38
ATOM	3935	CD2	LEU	512	-49.047	37.931	-14.337	1.00	44.07
ATOM	3936	C	LEU	512	-49.319	42.564	-14.249	1.00	44.44
ATOM	3937	O	LEU	512	-50.227	43.371	-14.048	1.00	42.14
ATOM	3938	N	PHE	513	-48.194	42.895	-14.876	1.00	49.49
ATOM	3939	CA	PHE	513	-47.977	44.248	-15.389	1.00	57.33
ATOM	3940	CB	PHE	513	-46.485	44.554	-15.530	1.00	60.73
ATOM	3941	CG	PHE	513	-45.819	44.908	-14.236	1.00	62.05
ATOM	3942	CD1	PHE	513	-44.775	44.129	-13.738	1.00	61.46
ATOM	3943	CD2	PHE	513	-46.240	46.019	-13.509	1.00	56.06
ATOM	3944	CE1	PHE	513	-44.165	44.449	-12.531	1.00	57.61
ATOM	3945	CE2	PHE	513	-45.638	46.346	-12.307	1.00	52.93
ATOM	3946	CZ	PHE	513	-44.596	45.560	-11.816	1.00	56.67
ATOM	3947	C	PHE	513	-48.657	44.430	-16.733	1.00	62.21
ATOM	3948	O	PHE	513	-48.700	43.503	-17.542	1.00	63.86
ATOM	3949	N	LEU	514	-49.128	45.650	-16.978	1.00	62.31
ATOM	3950	CA	LEU	514	-49.832	46.018	-18.205	1.00	59.38
ATOM	3951	CB	LEU	514	-50.164	47.515	-18.176	1.00	59.51
ATOM	3952	CG	LEU	514	-51.489	48.029	-18.742	1.00	57.89
ATOM	3953	CD1	LEU	514	-51.745	47.480	-20.135	1.00	61.73
ATOM	3954	CD2	LEU	514	-52.618	47.638	-17.817	1.00	66.16
ATOM	3955	C	LEU	514	-49.114	45.682	-19.518	1.00	61.98
ATOM	3956	O	LEU	514	-49.145	44.544	-19.981	1.00	58.17
ATOM	3957	N	TYR	515	-48.471	46.689	-20.106	1.00	66.51
ATOM	3958	CA	TYR	515	-47.774	46.569	-21.391	1.00	70.11
ATOM	3959	CB	TYR	515	-47.074	47.888	-21.722	1.00	74.15
ATOM	3960	CG	TYR	515	-47.991	49.084	-21.570	1.00	78.03
ATOM	3961	CD1	TYR	515	-48.167	49.693	-20.326	1.00	80.54
ATOM	3962	CE1	TYR	515	-49.040	50.770	-20.161	1.00	82.24
ATOM	3963	CD2	TYR	515	-48.712	49.586	-22.656	1.00	82.14
ATOM	3964	CE2	TYR	515	-49.593	50.671	-22.502	1.00	85.12
ATOM	3965	CZ	TYR	515	-49.752	51.254	-21.247	1.00	83.55
ATOM	3966	OH	TYR	515	-50.625	52.307	-21.063	1.00	77.87
ATOM	3967	C	TYR	515	-46.822	45.387	-21.544	1.00	69.37
ATOM	3968	O	TYR	515	-46.428	45.034	-22.656	1.00	62.29
ATOM	3969	N	SER	516	-46.442	44.792	-20.423	1.00	72.07
ATOM	3970	CA	SER	516	-45.575	43.627	-20.439	1.00	77.97
ATOM	3971	CB	SER	516	-44.163	43.978	-19.972	1.00	84.04
ATOM	3972	OG	SER	516	-43.285	42.887	-20.185	1.00	84.85
ATOM	3973	C	SER	516	-46.231	42.652	-19.484	1.00	80.57
ATOM	3974	O	SER	516	-45.990	42.690	-18.276	1.00	78.65
ATOM	3975	N	ARG	517	-47.121	41.836	-20.043	1.00	81.29
ATOM	3976	CA	ARG	517	-47.888	40.837	-19.301	1.00	82.81
ATOM	3977	CB	ARG	517	-48.810	40.066	-20.261	1.00	86.44
ATOM	3978	CG	ARG	517	-49.996	40.881	-20.807	1.00	89.00
ATOM	3979	CD	ARG	517	-50.342	40.524	-22.257	1.00	89.63
ATOM	3980	NE	ARG	517	-50.610	39.097	-22.446	1.00	96.44
ATOM	3981	CZ	ARG	517	-49.767	38.231	-23.012	1.00	95.43
ATOM	3982	NH1	ARG	517	-48.582	38.633	-23.460	1.00	96.87
ATOM	3983	NH2	ARG	517	-50.102	36.951	-23.114	1.00	92.97
ATOM	3984	C	ARG	517	-46.996	39.881	-18.518	1.00	81.04
ATOM	3985	O	ARG	517	-46.834	38.714	-18.879	1.00	82.53

ATOM	3986	N	SER	518	-46.435	40.399	-17.427	1.00	76.74
ATOM	3987	CA	SER	518	-45.546	39.643	-16.558	1.00	68.62
ATOM	3988	CB	SER	518	-44.106	39.726	-17.065	1.00	66.95
ATOM	3989	OG	SER	518	-43.250	38.920	-16.273	1.00	64.89
ATOM	3990	C	SER	518	-45.619	40.222	-15.155	1.00	64.51
ATOM	3991	O	SER	518	-45.840	41.421	-14.982	1.00	64.34
ATOM	3992	N	PRO	519	-45.453	39.370	-14.131	1.00	62.82
ATOM	3993	CD	PRO	519	-45.360	37.903	-14.241	1.00	59.24
ATOM	3994	CA	PRO	519	-45.495	39.781	-12.725	1.00	65.18
ATOM	3995	CB	PRO	519	-45.879	38.487	-12.026	1.00	61.12
ATOM	3996	CG	PRO	519	-45.099	37.479	-12.812	1.00	59.53
ATOM	3997	C	PRO	519	-44.139	40.286	-12.218	1.00	65.86
ATOM	3998	O	PRO	519	-43.960	40.500	-11.014	1.00	67.95
ATOM	3999	N	SER	520	-43.198	40.480	-13.143	1.00	66.94
ATOM	4000	CA	SER	520	-41.852	40.928	-12.803	1.00	63.22
ATOM	4001	CB	SER	520	-40.894	39.727	-12.767	1.00	64.13
ATOM	4002	OG	SER	520	-41.357	38.703	-11.906	1.00	63.87
ATOM	4003	C	SER	520	-41.289	41.964	-13.772	1.00	62.51
ATOM	4004	O	SER	520	-40.780	41.614	-14.842	1.00	61.46
ATOM	4005	N	HIS	521	-41.381	43.236	-13.405	1.00	64.53
ATOM	4006	CA	HIS	521	-40.827	44.294	-14.240	1.00	68.38
ATOM	4007	CB	HIS	521	-41.907	45.294	-14.648	1.00	69.15
ATOM	4008	CG	HIS	521	-41.368	46.513	-15.322	1.00	77.14
ATOM	4009	CD2	HIS	521	-41.074	46.761	-16.618	1.00	79.49
ATOM	4010	ND1	HIS	521	-41.027	47.656	-14.626	1.00	78.51
ATOM	4011	CE1	HIS	521	-40.546	48.552	-15.465	1.00	80.21
ATOM	4012	NE2	HIS	521	-40.563	48.036	-16.681	1.00	85.81
ATOM	4013	C	HIS	521	-39.679	44.999	-13.503	1.00	68.23
ATOM	4014	O	HIS	521	-39.743	45.197	-12.287	1.00	66.86
ATOM	4015	N	SER	522	-38.640	45.366	-14.255	1.00	67.09
ATOM	4016	CA	SER	522	-37.448	46.033	-13.719	1.00	66.09
ATOM	4017	CB	SER	522	-36.236	45.139	-13.953	1.00	67.69
ATOM	4018	OG	SER	522	-36.308	44.541	-15.234	1.00	76.41
ATOM	4019	C	SER	522	-37.184	47.425	-14.312	1.00	63.09
ATOM	4020	O	SER	522	-37.689	47.752	-15.384	1.00	63.85
ATOM	4021	N	LYS	523	-36.344	48.216	-13.644	1.00	65.06
ATOM	4022	CA	LYS	523	-36.042	49.571	-14.112	1.00	65.24
ATOM	4023	CB	LYS	523	-37.176	50.513	-13.695	1.00	63.14
ATOM	4024	CG	LYS	523	-37.147	51.861	-14.384	1.00	63.68
ATOM	4025	CD	LYS	523	-37.296	51.700	-15.896	1.00	64.85
ATOM	4026	CE	LYS	523	-37.368	53.046	-16.600	1.00	61.78
ATOM	4027	NZ	LYS	523	-36.145	53.866	-16.379	1.00	67.12
ATOM	4028	C	LYS	523	-34.701	50.170	-13.652	1.00	68.43
ATOM	4029	O	LYS	523	-34.192	49.840	-12.575	1.00	69.90
ATOM	4030	N	ASN	524	-34.152	51.059	-14.489	1.00	69.53
ATOM	4031	CA	ASN	524	-32.892	51.770	-14.233	1.00	67.19
ATOM	4032	CB	ASN	524	-32.017	51.816	-15.495	1.00	62.68
ATOM	4033	CG	ASN	524	-31.794	50.450	-16.118	1.00	66.55
ATOM	4034	OD1	ASN	524	-32.691	49.608	-16.136	1.00	66.73
ATOM	4035	ND2	ASN	524	-30.596	50.233	-16.659	1.00	68.72
ATOM	4036	C	ASN	524	-33.267	53.206	-13.868	1.00	68.80
ATOM	4037	O	ASN	524	-33.769	53.945	-14.714	1.00	70.42
ATOM	4038	N	MET	525	-33.023	53.606	-12.624	1.00	69.45
ATOM	4039	CA	MET	525	-33.360	54.960	-12.189	1.00	71.72
ATOM	4040	CB	MET	525	-34.275	54.901	-10.963	1.00	71.58
ATOM	4041	CG	MET	525	-35.653	55.523	-11.174	1.00	71.21
ATOM	4042	SD	MET	525	-36.736	55.388	-9.714	1.00	67.39

ATOM	4043	CE	MET	525	-36.118	56.717	-8.671	1.00	72.06
ATOM	4044	C	MET	525	-32.132	55.825	-11.894	1.00	74.60
ATOM	4045	O	MET	525	-31.000	55.412	-12.164	1.00	74.08
ATOM	4046	N	THR	526	-32.375	57.029	-11.356	1.00	78.27
ATOM	4047	CA	THR	526	-31.326	58.006	-11.004	1.00	79.30
ATOM	4048	CB	THR	526	-30.696	58.643	-12.283	1.00	74.40
ATOM	4049	OG1	THR	526	-30.217	57.615	-13.160	1.00	75.31
ATOM	4050	CG2	THR	526	-29.535	59.545	-11.917	1.00	74.07
ATOM	4051	C	THR	526	-31.856	59.155	-10.104	1.00	76.68
ATOM	4052	O	THR	526	-33.003	59.580	-10.245	1.00	75.63
ATOM	4053	N	ILE	527	-31.019	59.639	-9.180	1.00	75.75
ATOM	4054	CA	ILE	527	-31.365	60.749	-8.266	1.00	76.75
ATOM	4055	CB	ILE	527	-32.099	60.266	-6.983	1.00	78.91
ATOM	4056	CG2	ILE	527	-33.602	60.207	-7.225	1.00	80.09
ATOM	4057	CG1	ILE	527	-31.516	58.935	-6.492	1.00	76.96
ATOM	4058	CD1	ILE	527	-32.045	58.491	-5.145	1.00	72.25
ATOM	4059	C	ILE	527	-30.127	61.572	-7.865	1.00	73.90
ATOM	4060	O	ILE	527	-29.100	61.495	-8.540	1.00	73.15
ATOM	4061	N	SER	528	-30.206	62.345	-6.776	1.00	72.35
ATOM	4062	CA	SER	528	-29.054	63.160	-6.363	1.00	75.42
ATOM	4063	CB	SER	528	-29.000	64.429	-7.210	1.00	78.94
ATOM	4064	OG	SER	528	-28.975	64.103	-8.588	1.00	80.59
ATOM	4065	C	SER	528	-28.893	63.535	-4.881	1.00	73.18
ATOM	4066	O	SER	528	-27.823	63.327	-4.295	1.00	70.75
ATOM	4067	N	ARG	529	-29.922	64.142	-4.299	1.00	75.86
ATOM	4068	CA	ARG	529	-29.868	64.549	-2.897	1.00	77.81
ATOM	4069	CB	ARG	529	-29.793	66.073	-2.770	1.00	84.72
ATOM	4070	CG	ARG	529	-30.788	66.857	-3.632	1.00	94.97
ATOM	4071	CD	ARG	529	-30.191	67.211	-5.004	1.00	99.82
ATOM	4072	NE	ARG	529	-31.101	67.987	-5.855	1.00	100.00
ATOM	4073	CZ	ARG	529	-31.142	69.320	-5.911	1.00	98.98
ATOM	4074	NH1	ARG	529	-30.325	70.054	-5.163	1.00	99.42
ATOM	4075	NH2	ARG	529	-31.999	69.918	-6.726	1.00	95.71
ATOM	4076	C	ARG	529	-31.038	64.019	-2.080	1.00	80.20
ATOM	4077	O	ARG	529	-32.031	63.545	-2.637	1.00	83.65
ATOM	4078	N	GLY	530	-30.912	64.121	-0.757	1.00	81.10
ATOM	4079	CA	GLY	530	-31.942	63.645	0.160	1.00	79.12
ATOM	4080	C	GLY	530	-33.227	64.453	0.181	1.00	78.29
ATOM	4081	O	GLY	530	-33.978	64.419	1.158	1.00	74.95
ATOM	4082	N	GLY	531	-33.458	65.202	-0.890	1.00	77.13
ATOM	4083	CA	GLY	531	-34.658	66.003	-1.007	1.00	80.09
ATOM	4084	C	GLY	531	-35.251	65.713	-2.365	1.00	79.76
ATOM	4085	O	GLY	531	-36.469	65.764	-2.560	1.00	81.71
ATOM	4086	N	LEU	532	-34.363	65.401	-3.305	1.00	80.97
ATOM	4087	CA	LEU	532	-34.749	65.076	-4.666	1.00	81.48
ATOM	4088	CB	LEU	532	-33.633	65.478	-5.637	1.00	76.65
ATOM	4089	CG	LEU	532	-34.002	65.612	-7.115	1.00	75.33
ATOM	4090	CD1	LEU	532	-34.273	64.246	-7.751	1.00	72.93
ATOM	4091	CD2	LEU	532	-35.213	66.531	-7.240	1.00	73.43
ATOM	4092	C	LEU	532	-35.041	63.572	-4.769	1.00	83.00
ATOM	4093	O	LEU	532	-34.122	62.748	-4.867	1.00	81.01
ATOM	4094	N	MET	533	-36.326	63.223	-4.732	1.00	81.34
ATOM	4095	CA	MET	533	-36.734	61.830	-4.830	1.00	78.12
ATOM	4096	CB	MET	533	-37.501	61.383	-3.581	1.00	82.76
ATOM	4097	CG	MET	533	-38.847	62.050	-3.348	1.00	86.15
ATOM	4098	SD	MET	533	-39.777	61.289	-1.995	1.00	97.69
ATOM	4099	CE	MET	533	-38.941	59.640	-1.810	1.00	83.08

ATOM	4100	C	MET	533	-37.556	61.548	-6.076	1.00	72.70
ATOM	4101	O	MET	533	-38.774	61.727	-6.089	1.00	62.84
ATOM	4102	N	GLN	534	-36.873	61.120	-7.131	1.00	74.48
ATOM	4103	CA	GLN	534	-37.540	60.788	-8.381	1.00	76.67
ATOM	4104	CB	GLN	534	-36.526	60.291	-9.418	1.00	82.02
ATOM	4105	CG	GLN	534	-37.113	60.037	-10.809	1.00	90.77
ATOM	4106	CD	GLN	534	-36.065	59.631	-11.843	1.00	96.91
ATOM	4107	OE1	GLN	534	-36.207	58.608	-12.521	1.00	100.00
ATOM	4108	NE2	GLN	534	-35.019	60.444	-11.981	1.00	97.79
ATOM	4109	C	GLN	534	-38.578	59.707	-8.076	1.00	74.46
ATOM	4110	O	GLN	534	-38.324	58.792	-7.288	1.00	68.05
ATOM	4111	N	CYS	535	-39.761	59.856	-8.663	1.00	75.50
ATOM	4112	CA	CYS	535	-40.859	58.923	-8.454	1.00	71.26
ATOM	4113	C	CYS	535	-41.383	58.443	-9.786	1.00	69.58
ATOM	4114	O	CYS	535	-41.843	59.234	-10.605	1.00	73.59
ATOM	4115	CB	CYS	535	-41.985	59.618	-7.714	1.00	74.72
ATOM	4116	SG	CYS	535	-42.787	58.577	-6.473	1.00	82.01
ATOM	4117	N	GLU	536	-41.341	57.136	-9.986	1.00	66.60
ATOM	4118	CA	GLU	536	-41.799	56.539	-11.227	1.00	67.04
ATOM	4119	CB	GLU	536	-40.671	55.692	-11.802	1.00	69.03
ATOM	4120	CG	GLU	536	-40.833	55.289	-13.242	1.00	82.32
ATOM	4121	CD	GLU	536	-39.671	54.439	-13.716	1.00	89.89
ATOM	4122	OE1	GLU	536	-39.889	53.237	-13.999	1.00	92.56
ATOM	4123	OE2	GLU	536	-38.539	54.973	-13.789	1.00	90.69
ATOM	4124	C	GLU	536	-43.023	55.684	-10.922	1.00	67.69
ATOM	4125	O	GLU	536	-43.287	55.373	-9.758	1.00	68.29
ATOM	4126	N	GLU	537	-43.782	55.322	-11.955	1.00	66.70
ATOM	4127	CA	GLU	537	-44.979	54.504	-11.756	1.00	65.76
ATOM	4128	CB	GLU	537	-46.209	55.390	-11.615	1.00	68.21
ATOM	4129	CG	GLU	537	-46.447	56.292	-12.801	1.00	72.82
ATOM	4130	CD	GLU	537	-47.754	57.034	-12.690	1.00	78.84
ATOM	4131	OE1	GLU	537	-48.348	57.345	-13.746	1.00	80.04
ATOM	4132	OE2	GLU	537	-48.192	57.297	-11.546	1.00	80.06
ATOM	4133	C	GLU	537	-45.231	53.453	-12.831	1.00	61.08
ATOM	4134	O	GLU	537	-44.767	53.575	-13.967	1.00	58.68
ATOM	4135	N	LEU	538	-45.992	52.431	-12.452	1.00	56.32
ATOM	4136	CA	LEU	538	-46.324	51.331	-13.343	1.00	54.09
ATOM	4137	CB	LEU	538	-45.399	50.146	-13.083	1.00	54.20
ATOM	4138	CG	LEU	538	-43.998	50.195	-13.687	1.00	48.42
ATOM	4139	CD1	LEU	538	-43.149	49.113	-13.061	1.00	48.93
ATOM	4140	CD2	LEU	538	-44.079	50.014	-15.195	1.00	48.04
ATOM	4141	C	LEU	538	-47.776	50.883	-13.213	1.00	56.91
ATOM	4142	O	LEU	538	-48.434	51.145	-12.200	1.00	50.78
ATOM	4143	N	ILE	539	-48.252	50.186	-14.246	1.00	57.48
ATOM	4144	CA	ILE	539	-49.628	49.694	-14.297	1.00	58.36
ATOM	4145	CB	ILE	539	-50.358	50.116	-15.601	1.00	55.88
ATOM	4146	CG2	ILE	539	-51.859	50.055	-15.394	1.00	50.60
ATOM	4147	CG1	ILE	539	-49.961	51.536	-16.023	1.00	60.44
ATOM	4148	CD1	ILE	539	-48.605	51.635	-16.728	1.00	59.19
ATOM	4149	C	ILE	539	-49.674	48.174	-14.200	1.00	55.95
ATOM	4150	O	ILE	539	-49.143	47.462	-15.055	1.00	55.85
ATOM	4151	N	ALA	540	-50.296	47.688	-13.136	1.00	47.89
ATOM	4152	CA	ALA	540	-50.424	46.264	-12.916	1.00	42.22
ATOM	4153	CB	ALA	540	-49.733	45.871	-11.631	1.00	39.82
ATOM	4154	C	ALA	540	-51.902	45.978	-12.827	1.00	44.99
ATOM	4155	O	ALA	540	-52.668	46.808	-12.351	1.00	46.32
ATOM	4156	N	TYR	541	-52.320	44.834	-13.345	1.00	45.89

ATOM	4157	CA	TYR	541	-53.725	44.471	-13.298	1.00	45.22
ATOM	4158	CB	TYR	541	-54.321	44.364	-14.706	1.00	49.12
ATOM	4159	CG	TYR	541	-53.804	43.193	-15.518	1.00	61.17
ATOM	4160	CD1	TYR	541	-52.654	43.313	-16.298	1.00	66.44
ATOM	4161	CE1	TYR	541	-52.168	42.233	-17.047	1.00	71.58
ATOM	4162	CD2	TYR	541	-54.464	41.961	-15.506	1.00	66.51
ATOM	4163	CE2	TYR	541	-53.986	40.872	-16.251	1.00	74.05
ATOM	4164	CZ	TYR	541	-52.836	41.018	-17.020	1.00	73.50
ATOM	4165	OH	TYR	541	-52.356	39.960	-17.763	1.00	73.75
ATOM	4166	C	TYR	541	-53.888	43.159	-12.556	1.00	42.14
ATOM	4167	O	TYR	541	-52.915	42.552	-12.101	1.00	41.60
ATOM	4168	N	LEU	542	-55.133	42.729	-12.452	1.00	38.35
ATOM	4169	CA	LEU	542	-55.494	41.500	-11.768	1.00	31.70
ATOM	4170	CB	LEU	542	-56.497	41.859	-10.673	1.00	26.91
ATOM	4171	CG	LEU	542	-56.917	40.923	-9.550	1.00	27.37
ATOM	4172	CD1	LEU	542	-55.692	40.440	-8.798	1.00	29.00
ATOM	4173	CD2	LEU	542	-57.890	41.670	-8.615	1.00	20.97
ATOM	4174	C	LEU	542	-56.122	40.607	-12.838	1.00	30.49
ATOM	4175	O	LEU	542	-57.192	40.919	-13.376	1.00	30.59
ATOM	4176	N	ARG	543	-55.423	39.538	-13.201	1.00	30.09
ATOM	4177	CA	ARG	543	-55.922	38.622	-14.223	1.00	37.23
ATOM	4178	CB	ARG	543	-54.953	37.445	-14.424	1.00	35.97
ATOM	4179	CG	ARG	543	-55.001	36.352	-13.347	1.00	40.07
ATOM	4180	CD	ARG	543	-53.702	35.539	-13.284	1.00	37.83
ATOM	4181	NE	ARG	543	-53.141	35.264	-14.604	1.00	37.34
ATOM	4182	CZ	ARG	543	-51.898	34.844	-14.826	1.00	40.49
ATOM	4183	NH1	ARG	543	-51.063	34.629	-13.814	1.00	43.13
ATOM	4184	NH2	ARG	543	-51.473	34.685	-16.074	1.00	41.27
ATOM	4185	C	ARG	543	-57.337	38.149	-13.876	1.00	40.29
ATOM	4186	O	ARG	543	-57.762	38.213	-12.717	1.00	37.23
ATOM	4187	N	ASP	544	-58.071	37.710	-14.893	1.00	44.23
ATOM	4188	CA	ASP	544	-59.448	37.268	-14.718	1.00	45.02
ATOM	4189	CB	ASP	544	-60.055	36.891	-16.070	1.00	47.83
ATOM	4190	CG	ASP	544	-61.568	36.846	-16.036	1.00	49.59
ATOM	4191	OD1	ASP	544	-62.153	36.006	-16.750	1.00	45.21
ATOM	4192	OD2	ASP	544	-62.174	37.656	-15.301	1.00	53.27
ATOM	4193	C	ASP	544	-59.660	36.140	-13.708	1.00	45.17
ATOM	4194	O	ASP	544	-59.007	35.098	-13.756	1.00	40.74
ATOM	4195	N	GLU	545	-60.617	36.364	-12.817	1.00	48.27
ATOM	4196	CA	GLU	545	-60.972	35.418	-11.765	1.00	54.95
ATOM	4197	CB	GLU	545	-62.236	35.888	-11.033	1.00	59.76
ATOM	4198	CG	GLU	545	-63.410	36.294	-11.938	1.00	66.73
ATOM	4199	CD	GLU	545	-63.357	37.755	-12.416	1.00	70.10
ATOM	4200	OE1	GLU	545	-62.251	38.341	-12.513	1.00	66.92
ATOM	4201	OE2	GLU	545	-64.441	38.318	-12.705	1.00	71.82
ATOM	4202	C	GLU	545	-61.157	33.976	-12.223	1.00	53.13
ATOM	4203	O	GLU	545	-60.926	33.043	-11.452	1.00	52.14
ATOM	4204	N	SER	546	-61.545	33.801	-13.484	1.00	58.23
ATOM	4205	CA	SER	546	-61.789	32.475	-14.050	1.00	60.54
ATOM	4206	CB	SER	546	-62.561	32.592	-15.366	1.00	61.67
ATOM	4207	OG	SER	546	-61.751	33.123	-16.398	1.00	61.48
ATOM	4208	C	SER	546	-60.547	31.605	-14.253	1.00	62.58
ATOM	4209	O	SER	546	-60.648	30.493	-14.776	1.00	61.91
ATOM	4210	N	GLU	547	-59.381	32.111	-13.857	1.00	65.17
ATOM	4211	CA	GLU	547	-58.141	31.348	-13.994	1.00	58.86
ATOM	4212	CB	GLU	547	-57.237	31.953	-15.071	1.00	61.67
ATOM	4213	CG	GLU	547	-56.943	33.425	-14.895	1.00	70.48

ATOM	4214	CD	GLU	547	-56.714	34.127	-16.221	1.00	77.94
ATOM	4215	OE1	GLU	547	-57.600	34.902	-16.643	1.00	77.92
ATOM	4216	OE2	GLU	547	-55.654	33.899	-16.843	1.00	84.24
ATOM	4217	C	GLU	547	-57.393	31.195	-12.676	1.00	54.16
ATOM	4218	O	GLU	547	-56.287	30.665	-12.647	1.00	49.46
ATOM	4219	N	PHE	548	-58.005	31.641	-11.583	1.00	49.67
ATOM	4220	CA	PHE	548	-57.383	31.516	-10.274	1.00	47.85
ATOM	4221	CB	PHE	548	-56.263	32.558	-10.092	1.00	40.13
ATOM	4222	CG	PHE	548	-56.756	33.960	-9.839	1.00	32.23
ATOM	4223	CD1	PHE	548	-57.038	34.392	-8.535	1.00	28.32
ATOM	4224	CD2	PHE	548	-56.946	34.844	-10.895	1.00	25.76
ATOM	4225	CE1	PHE	548	-57.507	35.677	-8.281	1.00	16.11
ATOM	4226	CE2	PHE	548	-57.416	36.139	-10.655	1.00	27.06
ATOM	4227	CZ	PHE	548	-57.699	36.556	-9.342	1.00	25.53
ATOM	4228	C	PHE	548	-58.382	31.577	-9.112	1.00	53.17
ATOM	4229	O	PHE	548	-59.436	32.216	-9.204	1.00	51.46
ATOM	4230	N	ARG	549	-58.045	30.854	-8.046	1.00	58.69
ATOM	4231	CA	ARG	549	-58.824	30.791	-6.809	1.00	62.15
ATOM	4232	CB	ARG	549	-59.063	29.332	-6.416	1.00	65.43
ATOM	4233	CG	ARG	549	-60.303	29.096	-5.586	1.00	70.12
ATOM	4234	CD	ARG	549	-61.517	28.872	-6.479	1.00	82.55
ATOM	4235	NE	ARG	549	-61.798	30.013	-7.354	1.00	90.46
ATOM	4236	CZ	ARG	549	-62.017	29.930	-8.667	1.00	92.04
ATOM	4237	NH1	ARG	549	-61.987	28.752	-9.286	1.00	87.40
ATOM	4238	NH2	ARG	549	-62.278	31.033	-9.364	1.00	91.07
ATOM	4239	C	ARG	549	-57.877	31.435	-5.799	1.00	64.17
ATOM	4240	O	ARG	549	-56.656	31.315	-5.945	1.00	67.66
ATOM	4241	N	ASP	550	-58.404	32.102	-4.777	1.00	65.87
ATOM	4242	CA	ASP	550	-57.519	32.746	-3.806	1.00	71.70
ATOM	4243	CB	ASP	550	-57.088	34.123	-4.311	1.00	70.35
ATOM	4244	CG	ASP	550	-58.252	35.088	-4.411	1.00	75.56
ATOM	4245	OD1	ASP	550	-58.454	35.888	-3.468	1.00	70.59
ATOM	4246	OD2	ASP	550	-58.987	35.021	-5.419	1.00	79.69
ATOM	4247	C	ASP	550	-58.087	32.911	-2.406	1.00	79.43
ATOM	4248	O	ASP	550	-57.379	32.657	-1.425	1.00	82.16
ATOM	4249	N	LYS	551	-59.340	33.376	-2.322	1.00	80.71
ATOM	4250	CA	LYS	551	-60.030	33.638	-1.046	1.00	81.15
ATOM	4251	CB	LYS	551	-60.378	32.326	-0.316	1.00	80.29
ATOM	4252	CG	LYS	551	-61.739	31.740	-0.703	1.00	74.27
ATOM	4253	CD	LYS	551	-61.788	31.238	-2.140	1.00	76.61
ATOM	4254	CE	LYS	551	-61.187	29.838	-2.285	1.00	82.58
ATOM	4255	NZ	LYS	551	-59.716	29.767	-2.038	1.00	81.29
ATOM	4256	C	LYS	551	-59.212	34.602	-0.161	1.00	80.16
ATOM	4257	O	LYS	551	-59.337	34.645	1.075	1.00	72.06
ATOM	4258	N	LEU	552	-58.403	35.399	-0.856	1.00	73.25
ATOM	4259	CA	LEU	552	-57.515	36.396	-0.283	1.00	72.30
ATOM	4260	CB	LEU	552	-58.282	37.420	0.548	1.00	78.00
ATOM	4261	CG	LEU	552	-58.192	38.833	-0.033	1.00	76.78
ATOM	4262	CD1	LEU	552	-58.977	39.773	0.858	1.00	76.54
ATOM	4263	CD2	LEU	552	-56.726	39.277	-0.154	1.00	70.51
ATOM	4264	C	LEU	552	-56.290	35.900	0.467	1.00	61.27
ATOM	4265	O	LEU	552	-56.361	35.453	1.607	1.00	54.46
ATOM	4266	N	THR	553	-55.163	36.006	-0.223	1.00	55.83
ATOM	4267	CA	THR	553	-53.854	35.640	0.268	1.00	51.85
ATOM	4268	CB	THR	553	-53.338	34.368	-0.406	1.00	51.72
ATOM	4269	OG1	THR	553	-54.398	33.409	-0.491	1.00	58.89
ATOM	4270	CG2	THR	553	-52.175	33.789	0.371	1.00	50.49

ATOM	4271	C	THR	553	-53.074	36.815	-0.301	1.00	49.52
ATOM	4272	O	THR	553	-52.354	36.674	-1.282	1.00	53.78
ATOM	4273	N	PRO	554	-53.202	37.990	0.346	1.00	42.33
ATOM	4274	CD	PRO	554	-53.475	37.941	1.782	1.00	45.61
ATOM	4275	CA	PRO	554	-52.602	39.279	-0.011	1.00	35.09
ATOM	4276	CB	PRO	554	-51.916	39.661	1.296	1.00	33.72
ATOM	4277	CG	PRO	554	-52.928	39.275	2.277	1.00	39.60
ATOM	4278	C	PRO	554	-51.640	39.294	-1.180	1.00	30.07
ATOM	4279	O	PRO	554	-50.721	38.471	-1.277	1.00	25.02
ATOM	4280	N	ILE	555	-51.900	40.206	-2.111	1.00	27.98
ATOM	4281	CA	ILE	555	-51.042	40.358	-3.277	1.00	28.38
ATOM	4282	CB	ILE	555	-51.832	40.918	-4.482	1.00	30.66
ATOM	4283	CG2	ILE	555	-50.919	41.047	-5.709	1.00	28.75
ATOM	4284	CG1	ILE	555	-53.005	39.986	-4.800	1.00	23.39
ATOM	4285	CD1	ILE	555	-54.047	40.590	-5.697	1.00	22.22
ATOM	4286	C	ILE	555	-49.954	41.325	-2.813	1.00	25.50
ATOM	4287	O	ILE	555	-50.165	42.535	-2.758	1.00	27.61
ATOM	4288	N	THR	556	-48.830	40.763	-2.378	1.00	25.35
ATOM	4289	CA	THR	556	-47.726	41.555	-1.861	1.00	19.23
ATOM	4290	CB	THR	556	-46.928	40.782	-0.788	1.00	18.57
ATOM	4291	OG1	THR	556	-46.593	39.488	-1.296	1.00	30.97
ATOM	4292	CG2	THR	556	-47.732	40.630	0.509	1.00	2.86
ATOM	4293	C	THR	556	-46.782	41.988	-2.960	1.00	20.75
ATOM	4294	O	THR	556	-46.251	41.162	-3.699	1.00	19.47
ATOM	4295	N	ILE	557	-46.608	43.302	-3.084	1.00	23.63
ATOM	4296	CA	ILE	557	-45.723	43.866	-4.089	1.00	21.21
ATOM	4297	CB	ILE	557	-46.257	45.182	-4.661	1.00	18.61
ATOM	4298	CG2	ILE	557	-45.434	45.586	-5.853	1.00	24.82
ATOM	4299	CG1	ILE	557	-47.707	45.026	-5.115	1.00	13.95
ATOM	4300	CD1	ILE	557	-48.713	45.330	-4.035	1.00	10.42
ATOM	4301	C	ILE	557	-44.384	44.096	-3.415	1.00	23.53
ATOM	4302	O	ILE	557	-44.309	44.716	-2.352	1.00	16.08
ATOM	4303	N	PHE	558	-43.331	43.600	-4.058	1.00	26.80
ATOM	4304	CA	PHE	558	-41.977	43.678	-3.521	1.00	34.29
ATOM	4305	CB	PHE	558	-41.417	42.258	-3.419	1.00	39.40
ATOM	4306	CG	PHE	558	-40.007	42.174	-2.897	1.00	35.66
ATOM	4307	CD1	PHE	558	-39.745	42.302	-1.535	1.00	33.47
ATOM	4308	CD2	PHE	558	-38.951	41.884	-3.764	1.00	30.31
ATOM	4309	CE1	PHE	558	-38.456	42.132	-1.044	1.00	35.39
ATOM	4310	CE2	PHE	558	-37.660	41.711	-3.285	1.00	29.21
ATOM	4311	CZ	PHE	558	-37.411	41.837	-1.923	1.00	34.78
ATOM	4312	C	PHE	558	-41.009	44.557	-4.295	1.00	35.96
ATOM	4313	O	PHE	558	-40.698	44.303	-5.460	1.00	32.08
ATOM	4314	N	MET	559	-40.481	45.553	-3.600	1.00	38.98
ATOM	4315	CA	MET	559	-39.526	46.466	-4.191	1.00	41.54
ATOM	4316	CB	MET	559	-39.947	47.919	-3.963	1.00	41.11
ATOM	4317	CG	MET	559	-39.131	48.917	-4.774	1.00	37.04
ATOM	4318	SD	MET	559	-39.239	50.561	-4.109	1.00	26.02
ATOM	4319	CE	MET	559	-37.737	50.595	-3.170	1.00	28.49
ATOM	4320	C	MET	559	-38.128	46.260	-3.623	1.00	42.32
ATOM	4321	O	MET	559	-37.885	46.484	-2.435	1.00	39.06
ATOM	4322	N	GLU	560	-37.235	45.765	-4.467	1.00	42.00
ATOM	4323	CA	GLU	560	-35.853	45.583	-4.085	1.00	44.69
ATOM	4324	CB	GLU	560	-35.394	44.148	-4.331	1.00	49.68
ATOM	4325	CG	GLU	560	-35.446	43.705	-5.781	1.00	61.43
ATOM	4326	CD	GLU	560	-34.932	42.283	-6.003	1.00	67.03
ATOM	4327	OE1	GLU	560	-35.514	41.566	-6.849	1.00	68.34

ATOM	4328	OE2	GLU	560	-33.941	41.887	-5.347	1.00	69.16
ATOM	4329	C	GLU	560	-35.114	46.558	-4.994	1.00	48.55
ATOM	4330	O	GLU	560	-35.652	46.986	-6.007	1.00	46.67
ATOM	4331	N	TYR	561	-33.906	46.948	-4.611	1.00	53.69
ATOM	4332	CA	TYR	561	-33.124	47.887	-5.406	1.00	55.95
ATOM	4333	CB	TYR	561	-33.638	49.318	-5.199	1.00	47.29
ATOM	4334	CG	TYR	561	-33.489	49.837	-3.788	1.00	41.69
ATOM	4335	CD1	TYR	561	-32.330	50.494	-3.388	1.00	40.56
ATOM	4336	CE1	TYR	561	-32.184	50.973	-2.089	1.00	44.27
ATOM	4337	CD2	TYR	561	-34.505	49.667	-2.850	1.00	46.00
ATOM	4338	CE2	TYR	561	-34.371	50.144	-1.540	1.00	47.58
ATOM	4339	CZ	TYR	561	-33.205	50.796	-1.168	1.00	47.09
ATOM	4340	OH	TYR	561	-33.057	51.284	0.113	1.00	48.53
ATOM	4341	C	TYR	561	-31.655	47.803	-5.021	1.00	58.86
ATOM	4342	O	TYR	561	-31.308	47.307	-3.948	1.00	62.77
ATOM	4343	N	ARG	562	-30.791	48.302	-5.893	1.00	61.53
ATOM	4344	CA	ARG	562	-29.366	48.271	-5.625	1.00	68.08
ATOM	4345	CB	ARG	562	-28.787	46.898	-5.986	1.00	72.26
ATOM	4346	CG	ARG	562	-27.369	46.648	-5.458	1.00	83.88
ATOM	4347	CD	ARG	562	-26.621	45.582	-6.273	1.00	85.91
ATOM	4348	NE	ARG	562	-26.186	46.082	-7.581	1.00	87.82
ATOM	4349	CZ	ARG	562	-26.883	45.973	-8.712	1.00	87.97
ATOM	4350	NH1	ARG	562	-28.072	45.374	-8.724	1.00	85.31
ATOM	4351	NH2	ARG	562	-26.396	46.478	-9.837	1.00	86.46
ATOM	4352	C	ARG	562	-28.662	49.351	-6.427	1.00	70.33
ATOM	4353	O	ARG	562	-29.099	49.723	-7.514	1.00	72.36
ATOM	4354	N	LEU	563	-27.576	49.862	-5.864	1.00	68.98
ATOM	4355	CA	LEU	563	-26.775	50.896	-6.498	1.00	68.99
ATOM	4356	CB	LEU	563	-26.145	51.760	-5.407	1.00	66.45
ATOM	4357	CG	LEU	563	-25.034	52.760	-5.709	1.00	65.57
ATOM	4358	CD1	LEU	563	-25.539	53.912	-6.564	1.00	66.10
ATOM	4359	CD2	LEU	563	-24.505	53.264	-4.382	1.00	62.62
ATOM	4360	C	LEU	563	-25.696	50.233	-7.351	1.00	71.77
ATOM	4361	O	LEU	563	-25.377	49.060	-7.156	1.00	70.48
ATOM	4362	N	ASP	564	-25.178	50.971	-8.330	1.00	77.91
ATOM	4363	CA	ASP	564	-24.123	50.462	-9.208	1.00	82.78
ATOM	4364	CB	ASP	564	-24.401	50.814	-10.676	1.00	86.09
ATOM	4365	CG	ASP	564	-25.691	50.211	-11.195	1.00	91.54
ATOM	4366	OD1	ASP	564	-26.700	50.946	-11.289	1.00	90.60
ATOM	4367	OD2	ASP	564	-25.690	49.004	-11.521	1.00	92.76
ATOM	4368	C	ASP	564	-22.831	51.141	-8.821	1.00	82.95
ATOM	4369	O	ASP	564	-22.829	52.069	-8.010	1.00	82.25
ATOM	4370	N	TYR	565	-21.725	50.656	-9.370	1.00	85.82
ATOM	4371	CA	TYR	565	-20.459	51.306	-9.101	1.00	87.44
ATOM	4372	CB	TYR	565	-19.286	50.323	-9.008	1.00	91.85
ATOM	4373	CG	TYR	565	-19.226	49.218	-10.038	1.00	97.35
ATOM	4374	CD1	TYR	565	-18.280	49.253	-11.068	1.00	98.66
ATOM	4375	CE1	TYR	565	-18.141	48.188	-11.961	1.00	99.60
ATOM	4376	CD2	TYR	565	-20.043	48.088	-9.929	1.00	98.37
ATOM	4377	CE2	TYR	565	-19.914	47.015	-10.816	1.00	99.73
ATOM	4378	CZ	TYR	565	-18.958	47.069	-11.829	1.00	100.00
ATOM	4379	OH	TYR	565	-18.808	46.006	-12.696	1.00	100.00
ATOM	4380	C	TYR	565	-20.253	52.381	-10.164	1.00	84.88
ATOM	4381	O	TYR	565	-21.078	52.519	-11.079	1.00	82.69
ATOM	4382	N	ARG	566	-19.170	53.141	-10.033	1.00	84.76
ATOM	4383	CA	ARG	566	-18.880	54.252	-10.936	1.00	87.10
ATOM	4384	CB	ARG	566	-19.018	53.837	-12.407	1.00	86.76

ATOM	4385	CG	ARG	566	-18.623	54.906	-13.425	1.00	86.70
ATOM	4386	CD	ARG	566	-17.116	55.135	-13.453	1.00	90.79
ATOM	4387	NE	ARG	566	-16.694	55.879	-14.641	1.00	95.21
ATOM	4388	CZ	ARG	566	-15.831	55.429	-15.551	1.00	95.35
ATOM	4389	NH1	ARG	566	-15.280	54.227	-15.423	1.00	94.77
ATOM	4390	NH2	ARG	566	-15.521	56.178	-16.602	1.00	95.05
ATOM	4391	C	ARG	566	-19.923	55.307	-10.570	1.00	85.35
ATOM	4392	O	ARG	566	-20.877	55.544	-11.316	1.00	83.66
ATOM	4393	N	THR	567	-19.772	55.858	-9.362	1.00	86.93
ATOM	4394	CA	THR	567	-20.674	56.877	-8.820	1.00	87.17
ATOM	4395	CB	THR	567	-21.721	56.247	-7.854	1.00	89.01
ATOM	4396	OG1	THR	567	-22.591	55.371	-8.583	1.00	92.26
ATOM	4397	CG2	THR	567	-22.562	57.320	-7.180	1.00	89.68
ATOM	4398	C	THR	567	-19.900	57.975	-8.080	1.00	86.65
ATOM	4399	O	THR	567	-20.393	59.105	-7.929	1.00	81.20
ATOM	4400	N	ALA	568	-18.683	57.652	-7.639	1.00	87.98
ATOM	4401	CA	ALA	568	-17.855	58.623	-6.919	1.00	92.17
ATOM	4402	CB	ALA	568	-18.138	58.552	-5.414	1.00	89.30
ATOM	4403	C	ALA	568	-16.347	58.521	-7.168	1.00	91.12
ATOM	4404	O	ALA	568	-15.878	57.655	-7.919	1.00	87.13
ATOM	4405	N	ALA	569	-15.626	59.457	-6.545	1.00	89.49
ATOM	4406	CA	ALA	569	-14.167	59.597	-6.582	1.00	85.52
ATOM	4407	CB	ALA	569	-13.554	59.012	-5.314	1.00	83.66
ATOM	4408	C	ALA	569	-13.382	59.125	-7.797	1.00	86.08
ATOM	4409	O	ALA	569	-13.456	57.966	-8.206	1.00	83.03
ATOM	4410	N	ASP	570	-12.582	60.041	-8.331	1.00	88.91
ATOM	4411	CA	ASP	570	-11.722	59.764	-9.475	1.00	93.70
ATOM	4412	CB	ASP	570	-10.989	61.059	-9.885	1.00	95.06
ATOM	4413	CG	ASP	570	-9.808	60.817	-10.844	1.00	99.42
ATOM	4414	OD1	ASP	570	-8.667	61.207	-10.495	1.00	97.29
ATOM	4415	OD2	ASP	570	-10.017	60.260	-11.949	1.00	100.00
ATOM	4416	C	ASP	570	-10.709	58.675	-9.087	1.00	94.51
ATOM	4417	O	ASP	570	-10.659	57.601	-9.700	1.00	95.06
ATOM	4418	N	THR	571	-9.952	58.953	-8.026	1.00	94.99
ATOM	4419	CA	THR	571	-8.912	58.060	-7.525	1.00	94.45
ATOM	4420	CB	THR	571	-8.295	58.590	-6.198	1.00	96.88
ATOM	4421	OG1	THR	571	-7.655	59.852	-6.429	1.00	100.00
ATOM	4422	CG2	THR	571	-7.257	57.612	-5.661	1.00	97.86
ATOM	4423	C	THR	571	-9.364	56.629	-7.316	1.00	88.39
ATOM	4424	O	THR	571	-10.329	56.373	-6.588	1.00	83.03
ATOM	4425	N	THR	572	-8.671	55.720	-8.008	1.00	85.59
ATOM	4426	CA	THR	572	-8.900	54.275	-7.945	1.00	85.89
ATOM	4427	CB	THR	572	-8.161	53.663	-6.730	1.00	89.88
ATOM	4428	OG1	THR	572	-6.843	54.219	-6.652	1.00	93.66
ATOM	4429	CG2	THR	572	-8.045	52.146	-6.862	1.00	90.49
ATOM	4430	C	THR	572	-10.381	53.914	-7.871	1.00	82.04
ATOM	4431	O	THR	572	-10.756	52.878	-7.306	1.00	79.10
ATOM	4432	N	GLY	573	-11.212	54.789	-8.435	1.00	78.78
ATOM	4433	CA	GLY	573	-12.647	54.583	-8.430	1.00	69.81
ATOM	4434	C	GLY	573	-13.139	54.157	-7.064	1.00	59.58
ATOM	4435	O	GLY	573	-13.473	52.991	-6.860	1.00	62.32
ATOM	4436	N	LEU	574	-13.110	55.067	-6.102	1.00	47.82
ATOM	4437	CA	LEU	574	-13.582	54.705	-4.785	1.00	38.92
ATOM	4438	CB	LEU	574	-12.902	55.530	-3.706	1.00	32.94
ATOM	4439	CG	LEU	574	-12.545	54.651	-2.516	1.00	23.55
ATOM	4440	CD1	LEU	574	-11.287	53.841	-2.845	1.00	12.23
ATOM	4441	CD2	LEU	574	-12.363	55.513	-1.280	1.00	21.14

ATOM	4442	C	LEU	574	-15.094	54.863	-4.715	1.00	38.22
ATOM	4443	O	LEU	574	-15.618	55.955	-4.479	1.00	35.52
ATOM	4444	N	GLN	575	-15.784	53.748	-4.938	1.00	42.28
ATOM	4445	CA	GLN	575	-17.241	53.684	-4.919	1.00	41.88
ATOM	4446	CB	GLN	575	-17.707	52.411	-5.631	1.00	46.41
ATOM	4447	CG	GLN	575	-16.904	51.164	-5.278	1.00	55.24
ATOM	4448	CD	GLN	575	-16.991	50.099	-6.353	1.00	61.57
ATOM	4449	OE1	GLN	575	-17.516	49.007	-6.130	1.00	67.09
ATOM	4450	NE2	GLN	575	-16.474	50.413	-7.535	1.00	64.50
ATOM	4451	C	GLN	575	-17.820	53.753	-3.512	1.00	37.54
ATOM	4452	O	GLN	575	-17.151	53.425	-2.539	1.00	39.72
ATOM	4453	N	PRO	576	-19.055	54.248	-3.382	1.00	39.30
ATOM	4454	CD	PRO	576	-19.806	54.978	-4.415	1.00	41.91
ATOM	4455	CA	PRO	576	-19.722	54.363	-2.079	1.00	41.47
ATOM	4456	CB	PRO	576	-20.819	55.408	-2.348	1.00	42.06
ATOM	4457	CG	PRO	576	-20.399	56.096	-3.621	1.00	41.08
ATOM	4458	C	PRO	576	-20.358	53.043	-1.614	1.00	36.92
ATOM	4459	O	PRO	576	-20.202	52.004	-2.254	1.00	37.29
ATOM	4460	N	ILE	577	-21.041	53.092	-0.473	1.00	32.92
ATOM	4461	CA	ILE	577	-21.757	51.944	0.074	1.00	34.83
ATOM	4462	CB	ILE	577	-20.939	51.073	1.060	1.00	42.24
ATOM	4463	CG2	ILE	577	-20.758	49.675	0.512	1.00	47.76
ATOM	4464	CG1	ILE	577	-19.644	51.763	1.462	1.00	41.75
ATOM	4465	CD1	ILE	577	-19.872	52.875	2.451	1.00	44.75
ATOM	4466	C	ILE	577	-22.954	52.476	0.824	1.00	32.00
ATOM	4467	O	ILE	577	-22.897	53.554	1.419	1.00	23.93
ATOM	4468	N	LEU	578	-24.041	51.720	0.768	1.00	34.14
ATOM	4469	CA	LEU	578	-25.275	52.092	1.438	1.00	37.42
ATOM	4470	CB	LEU	578	-26.392	51.102	1.082	1.00	41.61
ATOM	4471	CG	LEU	578	-26.861	50.893	-0.368	1.00	43.84
ATOM	4472	CD1	LEU	578	-27.601	52.119	-0.829	1.00	49.69
ATOM	4473	CD2	LEU	578	-25.708	50.552	-1.326	1.00	44.64
ATOM	4474	C	LEU	578	-24.992	52.015	2.923	1.00	37.40
ATOM	4475	O	LEU	578	-24.015	51.385	3.337	1.00	34.61
ATOM	4476	N	ASN	579	-25.824	52.661	3.729	1.00	41.17
ATOM	4477	CA	ASN	579	-25.622	52.597	5.161	1.00	45.95
ATOM	4478	CB	ASN	579	-26.661	53.424	5.909	1.00	47.79
ATOM	4479	CG	ASN	579	-26.443	53.403	7.412	1.00	56.46
ATOM	4480	OD1	ASN	579	-26.734	52.409	8.080	1.00	61.04
ATOM	4481	ND2	ASN	579	-25.906	54.493	7.947	1.00	62.27
ATOM	4482	C	ASN	579	-25.719	51.132	5.572	1.00	50.12
ATOM	4483	O	ASN	579	-26.454	50.347	4.970	1.00	55.19
ATOM	4484	N	GLN	580	-24.934	50.775	6.578	1.00	54.96
ATOM	4485	CA	GLN	580	-24.864	49.421	7.120	1.00	58.02
ATOM	4486	CB	GLN	580	-24.090	49.482	8.439	1.00	58.84
ATOM	4487	CG	GLN	580	-23.476	48.191	8.943	1.00	52.53
ATOM	4488	CD	GLN	580	-22.836	48.377	10.316	1.00	54.84
ATOM	4489	OE1	GLN	580	-22.972	49.433	10.951	1.00	55.99
ATOM	4490	NE2	GLN	580	-22.144	47.348	10.785	1.00	55.12
ATOM	4491	C	GLN	580	-26.254	48.843	7.366	1.00	57.12
ATOM	4492	O	GLN	580	-26.566	47.733	6.942	1.00	59.24
ATOM	4493	N	PHE	581	-27.098	49.620	8.029	1.00	58.27
ATOM	4494	CA	PHE	581	-28.439	49.166	8.339	1.00	62.74
ATOM	4495	CB	PHE	581	-28.695	49.286	9.850	1.00	72.23
ATOM	4496	CG	PHE	581	-27.752	48.455	10.710	1.00	79.04
ATOM	4497	CD1	PHE	581	-27.254	48.963	11.917	1.00	79.39
ATOM	4498	CD2	PHE	581	-27.371	47.167	10.326	1.00	77.77

ATOM	4499	CE1	PHE	581	-26.394	48.202	12.726	1.00	73.00
ATOM	4500	CE2	PHE	581	-26.510	46.402	11.131	1.00	72.26
ATOM	4501	CZ	PHE	581	-26.024	46.924	12.333	1.00	68.99
ATOM	4502	C	PHE	581	-29.525	49.876	7.529	1.00	60.56
ATOM	4503	O	PHE	581	-30.306	50.680	8.056	1.00	63.03
ATOM	4504	N	THR	582	-29.519	49.629	6.227	1.00	52.95
ATOM	4505	CA	THR	582	-30.529	50.193	5.352	1.00	48.40
ATOM	4506	CB	THR	582	-30.031	51.361	4.467	1.00	48.66
ATOM	4507	OG1	THR	582	-28.850	50.975	3.751	1.00	45.76
ATOM	4508	CG2	THR	582	-29.787	52.609	5.302	1.00	43.54
ATOM	4509	C	THR	582	-30.971	49.052	4.472	1.00	48.42
ATOM	4510	O	THR	582	-30.183	48.500	3.703	1.00	49.17
ATOM	4511	N	PRO	583	-32.229	48.629	4.643	1.00	46.46
ATOM	4512	CD	PRO	583	-33.133	49.171	5.674	1.00	40.56
ATOM	4513	CA	PRO	583	-32.873	47.539	3.904	1.00	41.17
ATOM	4514	CB	PRO	583	-34.229	47.422	4.601	1.00	43.00
ATOM	4515	CG	PRO	583	-33.976	47.987	5.984	1.00	41.45
ATOM	4516	C	PRO	583	-33.048	47.885	2.427	1.00	30.48
ATOM	4517	O	PRO	583	-33.640	48.903	2.089	1.00	30.55
ATOM	4518	N	ALA	584	-32.546	47.032	1.547	1.00	26.67
ATOM	4519	CA	ALA	584	-32.671	47.280	0.112	1.00	32.07
ATOM	4520	CB	ALA	584	-31.615	46.481	-0.661	1.00	23.18
ATOM	4521	C	ALA	584	-34.060	46.926	-0.402	1.00	36.52
ATOM	4522	O	ALA	584	-34.296	46.948	-1.604	1.00	39.39
ATOM	4523	N	ASN	585	-34.973	46.585	0.506	1.00	42.04
ATOM	4524	CA	ASN	585	-36.330	46.194	0.120	1.00	46.65
ATOM	4525	CB	ASN	585	-36.569	44.703	0.351	1.00	49.18
ATOM	4526	CG	ASN	585	-35.454	43.856	-0.155	1.00	59.89
ATOM	4527	OD1	ASN	585	-35.032	43.992	-1.309	1.00	57.33
ATOM	4528	ND2	ASN	585	-34.947	43.001	0.729	1.00	71.14
ATOM	4529	C	ASN	585	-37.437	46.903	0.861	1.00	44.60
ATOM	4530	O	ASN	585	-37.239	47.506	1.915	1.00	42.76
ATOM	4531	N	ILE	586	-38.634	46.724	0.328	1.00	42.09
ATOM	4532	CA	ILE	586	-39.824	47.284	0.912	1.00	42.91
ATOM	4533	CB	ILE	586	-39.865	48.834	0.806	1.00	44.02
ATOM	4534	CG2	ILE	586	-39.869	49.291	-0.654	1.00	47.10
ATOM	4535	CG1	ILE	586	-41.066	49.371	1.583	1.00	42.26
ATOM	4536	CD1	ILE	586	-41.168	48.817	3.002	1.00	42.53
ATOM	4537	C	ILE	586	-40.998	46.629	0.209	1.00	43.37
ATOM	4538	O	ILE	586	-41.047	46.563	-1.019	1.00	47.51
ATOM	4539	N	SER	587	-41.877	46.035	1.005	1.00	44.81
ATOM	4540	CA	SER	587	-43.046	45.361	0.481	1.00	43.34
ATOM	4541	CB	SER	587	-43.091	43.904	0.953	1.00	43.28
ATOM	4542	OG	SER	587	-42.031	43.139	0.400	1.00	46.91
ATOM	4543	C	SER	587	-44.296	46.085	0.925	1.00	44.96
ATOM	4544	O	SER	587	-44.377	46.624	2.028	1.00	49.49
ATOM	4545	N	ARG	588	-45.266	46.113	0.033	1.00	47.99
ATOM	4546	CA	ARG	588	-46.539	46.751	0.293	1.00	47.23
ATOM	4547	CB	ARG	588	-46.598	48.073	-0.485	1.00	46.71
ATOM	4548	CG	ARG	588	-47.459	49.156	0.127	1.00	51.28
ATOM	4549	CD	ARG	588	-47.074	49.422	1.567	1.00	60.46
ATOM	4550	NE	ARG	588	-45.655	49.727	1.718	1.00	66.50
ATOM	4551	CZ	ARG	588	-45.160	50.590	2.604	1.00	70.67
ATOM	4552	NH1	ARG	588	-45.962	51.253	3.432	1.00	72.62
ATOM	4553	NH2	ARG	588	-43.852	50.779	2.674	1.00	71.96
ATOM	4554	C	ARG	588	-47.531	45.715	-0.250	1.00	48.23
ATOM	4555	O	ARG	588	-47.222	45.005	-1.220	1.00	45.78

ATOM	4556	N	GLN	589	-48.693	45.586	0.381	1.00	42.44
ATOM	4557	CA	GLN	589	-49.647	44.592	-0.084	1.00	36.46
ATOM	4558	CB	GLN	589	-49.654	43.390	0.855	1.00	40.41
ATOM	4559	CG	GLN	589	-49.809	43.724	2.326	1.00	40.39
ATOM	4560	CD	GLN	589	-49.827	42.482	3.191	1.00	41.68
ATOM	4561	OE1	GLN	589	-48.828	41.765	3.307	1.00	42.33
ATOM	4562	NE2	GLN	589	-50.975	42.208	3.790	1.00	44.20
ATOM	4563	C	GLN	589	-51.074	45.024	-0.397	1.00	39.05
ATOM	4564	O	GLN	589	-51.689	45.822	0.318	1.00	33.82
ATOM	4565	N	ALA	590	-51.584	44.455	-1.488	1.00	38.21
ATOM	4566	CA	ALA	590	-52.935	44.696	-1.972	1.00	37.59
ATOM	4567	CB	ALA	590	-52.919	44.854	-3.486	1.00	31.64
ATOM	4568	C	ALA	590	-53.813	43.510	-1.580	1.00	37.97
ATOM	4569	O	ALA	590	-53.338	42.368	-1.542	1.00	39.23
ATOM	4570	N	HIS	591	-55.084	43.790	-1.288	1.00	36.65
ATOM	4571	CA	HIS	591	-56.058	42.768	-0.895	1.00	32.15
ATOM	4572	CB	HIS	591	-56.521	43.002	0.537	1.00	37.22
ATOM	4573	CG	HIS	591	-55.444	42.836	1.556	1.00	48.39
ATOM	4574	CD2	HIS	591	-55.038	41.748	2.253	1.00	52.93
ATOM	4575	ND1	HIS	591	-54.646	43.878	1.973	1.00	54.73
ATOM	4576	CE1	HIS	591	-53.793	43.442	2.883	1.00	57.37
ATOM	4577	NE2	HIS	591	-54.013	42.152	3.070	1.00	58.82
ATOM	4578	C	HIS	591	-57.290	42.767	-1.790	1.00	32.96
ATOM	4579	O	HIS	591	-57.976	43.780	-1.907	1.00	33.33
ATOM	4580	N	ILE	592	-57.601	41.614	-2.379	1.00	29.79
ATOM	4581	CA	ILE	592	-58.769	41.485	-3.255	1.00	27.79
ATOM	4582	CB	ILE	592	-58.863	40.079	-3.895	1.00	20.49
ATOM	4583	CG2	ILE	592	-60.235	39.887	-4.544	1.00	9.97
ATOM	4584	CG1	ILE	592	-57.708	39.891	-4.886	1.00	13.80
ATOM	4585	CD1	ILE	592	-57.843	38.713	-5.801	1.00	2.00
ATOM	4586	C	ILE	592	-60.059	41.753	-2.505	1.00	29.15
ATOM	4587	O	ILE	592	-60.223	41.324	-1.366	1.00	32.08
ATOM	4588	N	LEU	593	-60.976	42.466	-3.149	1.00	34.20
ATOM	4589	CA	LEU	593	-62.257	42.776	-2.526	1.00	41.93
ATOM	4590	CB	LEU	593	-63.086	43.711	-3.419	1.00	43.93
ATOM	4591	CG	LEU	593	-64.067	44.673	-2.727	1.00	48.21
ATOM	4592	CD1	LEU	593	-64.821	45.444	-3.791	1.00	46.55
ATOM	4593	CD2	LEU	593	-65.046	43.953	-1.796	1.00	44.26
ATOM	4594	C	LEU	593	-62.987	41.451	-2.346	1.00	37.09
ATOM	4595	O	LEU	593	-63.026	40.636	-3.275	1.00	39.51
ATOM	4596	N	LEU	594	-63.512	41.225	-1.143	1.00	30.55
ATOM	4597	CA	LEU	594	-64.247	40.003	-0.833	1.00	26.66
ATOM	4598	CB	LEU	594	-63.312	38.788	-0.838	1.00	25.95
ATOM	4599	CG	LEU	594	-63.865	37.356	-0.824	1.00	18.39
ATOM	4600	CD1	LEU	594	-62.747	36.433	-1.203	1.00	23.44
ATOM	4601	CD2	LEU	594	-64.423	36.954	0.519	1.00	8.65
ATOM	4602	C	LEU	594	-64.905	40.139	0.523	1.00	27.41
ATOM	4603	O	LEU	594	-64.293	40.617	1.472	1.00	28.80
ATOM	4604	N	ASP	595	-66.148	39.692	0.610	1.00	30.95
ATOM	4605	CA	ASP	595	-66.912	39.762	1.843	1.00	38.03
ATOM	4606	CB	ASP	595	-66.371	38.775	2.882	1.00	35.37
ATOM	4607	CG	ASP	595	-66.810	37.338	2.622	1.00	31.03
ATOM	4608	OD1	ASP	595	-66.193	36.412	3.200	1.00	30.32
ATOM	4609	OD2	ASP	595	-67.772	37.134	1.852	1.00	22.84
ATOM	4610	C	ASP	595	-67.012	41.163	2.437	1.00	43.29
ATOM	4611	O	ASP	595	-67.380	41.320	3.599	1.00	47.81
ATOM	4612	N	CYS	596	-66.635	42.176	1.663	1.00	52.44

ATOM	4613	CA	CYS	596	-66.740	43.557	2.129	1.00	63.57
ATOM	4614	C	CYS	596	-68.117	44.040	1.661	1.00	69.47
ATOM	4615	O	CYS	596	-68.732	44.909	2.282	1.00	69.65
ATOM	4616	CB	CYS	596	-65.628	44.447	1.539	1.00	57.84
ATOM	4617	SG	CYS	596	-63.927	44.178	2.167	1.00	39.20
ATOM	4618	N	GLY	597	-68.588	43.393	0.591	1.00	76.80
ATOM	4619	CA	GLY	597	-69.868	43.646	-0.066	1.00	81.78
ATOM	4620	C	GLY	597	-70.967	44.575	0.429	1.00	82.32
ATOM	4621	O	GLY	597	-71.110	44.841	1.626	1.00	79.35
ATOM	4622	N	GLU	598	-71.806	44.983	-0.528	1.00	83.04
ATOM	4623	CA	GLU	598	-72.941	45.890	-0.323	1.00	82.32
ATOM	4624	CB	GLU	598	-73.935	45.318	0.693	1.00	86.68
ATOM	4625	CG	GLU	598	-75.244	46.095	0.780	1.00	89.76
ATOM	4626	CD	GLU	598	-76.298	45.378	1.602	1.00	92.18
ATOM	4627	OE1	GLU	598	-77.378	45.074	1.043	1.00	89.87
ATOM	4628	OE2	GLU	598	-76.049	45.115	2.800	1.00	95.87
ATOM	4629	C	GLU	598	-72.413	47.249	0.120	1.00	79.19
ATOM	4630	O	GLU	598	-72.184	48.131	-0.716	1.00	85.33
ATOM	4631	N	ASP	599	-72.169	47.386	1.424	1.00	71.78
ATOM	4632	CA	ASP	599	-71.610	48.600	2.030	1.00	58.26
ATOM	4633	CB	ASP	599	-71.478	48.343	3.543	1.00	64.57
ATOM	4634	CG	ASP	599	-70.786	49.470	4.305	1.00	71.55
ATOM	4635	OD1	ASP	599	-70.329	49.201	5.448	1.00	69.11
ATOM	4636	OD2	ASP	599	-70.712	50.608	3.791	1.00	76.53
ATOM	4637	C	ASP	599	-70.254	48.847	1.332	1.00	48.25
ATOM	4638	O	ASP	599	-69.670	49.922	1.420	1.00	36.16
ATOM	4639	N	ASN	600	-69.823	47.826	0.591	1.00	48.19
ATOM	4640	CA	ASN	600	-68.609	47.783	-0.219	1.00	47.75
ATOM	4641	CB	ASN	600	-68.701	48.786	-1.366	1.00	51.71
ATOM	4642	CG	ASN	600	-68.085	48.253	-2.641	1.00	59.53
ATOM	4643	OD1	ASN	600	-68.074	47.042	-2.874	1.00	62.58
ATOM	4644	ND2	ASN	600	-67.560	49.149	-3.472	1.00	64.82
ATOM	4645	C	ASN	600	-67.246	47.870	0.463	1.00	43.70
ATOM	4646	O	ASN	600	-66.211	47.614	-0.166	1.00	40.48
ATOM	4647	N	VAL	601	-67.237	48.205	1.747	1.00	33.38
ATOM	4648	CA	VAL	601	-65.984	48.298	2.467	1.00	28.50
ATOM	4649	CB	VAL	601	-65.560	49.757	2.766	1.00	29.01
ATOM	4650	CG1	VAL	601	-64.917	50.369	1.543	1.00	25.07
ATOM	4651	CG2	VAL	601	-66.751	50.588	3.268	1.00	21.42
ATOM	4652	C	VAL	601	-66.038	47.557	3.772	1.00	32.36
ATOM	4653	O	VAL	601	-66.998	47.682	4.517	1.00	30.82
ATOM	4654	N	CYS	602	-64.960	46.840	4.065	1.00	31.31
ATOM	4655	CA	CYS	602	-64.832	46.077	5.291	1.00	30.88
ATOM	4656	C	CYS	602	-64.574	46.977	6.495	1.00	30.28
ATOM	4657	O	CYS	602	-63.534	47.626	6.590	1.00	32.31
ATOM	4658	CB	CYS	602	-63.713	45.073	5.123	1.00	29.47
ATOM	4659	SG	CYS	602	-64.206	43.655	4.109	1.00	33.09
ATOM	4660	N	LYS	603	-65.564	47.054	7.378	1.00	28.38
ATOM	4661	CA	LYS	603	-65.481	47.866	8.589	1.00	35.57
ATOM	4662	CB	LYS	603	-66.658	48.853	8.666	1.00	41.51
ATOM	4663	CG	LYS	603	-66.819	49.844	7.507	1.00	48.56
ATOM	4664	CD	LYS	603	-68.100	50.686	7.703	1.00	53.26
ATOM	4665	CE	LYS	603	-68.274	51.763	6.630	1.00	53.85
ATOM	4666	NZ	LYS	603	-69.496	52.592	6.863	1.00	48.41
ATOM	4667	C	LYS	603	-65.560	46.909	9.785	1.00	38.64
ATOM	4668	O	LYS	603	-66.653	46.558	10.243	1.00	41.31
ATOM	4669	N	PRO	604	-64.400	46.466	10.302	1.00	37.35

ATOM	4670	CD	PRO	604	-63.060	46.702	9.726	1.00	28.87
ATOM	4671	CA	PRO	604	-64.330	45.538	11.443	1.00	33.04
ATOM	4672	CB	PRO	604	-62.908	44.991	11.333	1.00	32.61
ATOM	4673	CG	PRO	604	-62.146	46.165	10.788	1.00	26.41
ATOM	4674	C	PRO	604	-64.593	46.123	12.833	1.00	33.55
ATOM	4675	O	PRO	604	-64.340	47.300	13.087	1.00	41.95
ATOM	4676	N	LYS	605	-65.124	45.296	13.724	1.00	28.33
ATOM	4677	CA	LYS	605	-65.364	45.739	15.087	1.00	37.09
ATOM	4678	CB	LYS	605	-66.816	45.513	15.514	1.00	39.13
ATOM	4679	CG	LYS	605	-67.105	45.988	16.940	1.00	42.81
ATOM	4680	CD	LYS	605	-68.499	45.607	17.409	1.00	44.49
ATOM	4681	CE	LYS	605	-68.714	45.974	18.881	1.00	47.94
ATOM	4682	NZ	LYS	605	-67.897	45.159	19.831	1.00	45.78
ATOM	4683	C	LYS	605	-64.406	44.959	15.991	1.00	42.78
ATOM	4684	O	LYS	605	-64.718	43.863	16.463	1.00	48.71
ATOM	4685	N	LEU	606	-63.230	45.537	16.215	1.00	44.14
ATOM	4686	CA	LEU	606	-62.194	44.919	17.034	1.00	43.28
ATOM	4687	CB	LEU	606	-60.822	45.295	16.468	1.00	37.25
ATOM	4688	CG	LEU	606	-60.640	44.973	14.982	1.00	34.47
ATOM	4689	CD1	LEU	606	-59.624	45.906	14.357	1.00	36.05
ATOM	4690	CD2	LEU	606	-60.248	43.516	14.793	1.00	25.55
ATOM	4691	C	LEU	606	-62.275	45.290	18.516	1.00	45.01
ATOM	4692	O	LEU	606	-62.698	46.394	18.866	1.00	39.88
ATOM	4693	N	GLU	607	-61.860	44.359	19.377	1.00	48.31
ATOM	4694	CA	GLU	607	-61.867	44.568	20.826	1.00	57.13
ATOM	4695	CB	GLU	607	-63.275	44.383	21.408	1.00	63.43
ATOM	4696	CG	GLU	607	-63.938	43.055	21.085	1.00	70.91
ATOM	4697	CD	GLU	607	-65.336	43.210	20.496	1.00	76.66
ATOM	4698	OE1	GLU	607	-65.460	43.281	19.251	1.00	73.87
ATOM	4699	OE2	GLU	607	-66.312	43.252	21.277	1.00	80.54
ATOM	4700	C	GLU	607	-60.879	43.659	21.546	1.00	57.19
ATOM	4701	O	GLU	607	-60.900	42.441	21.370	1.00	58.84
ATOM	4702	N	VAL	608	-60.002	44.272	22.342	1.00	58.14
ATOM	4703	CA	VAL	608	-58.981	43.550	23.106	1.00	56.67
ATOM	4704	CB	VAL	608	-57.655	44.352	23.210	1.00	55.87
ATOM	4705	CG1	VAL	608	-56.508	43.423	23.539	1.00	53.35
ATOM	4706	CG2	VAL	608	-57.378	45.132	21.942	1.00	58.22
ATOM	4707	C	VAL	608	-59.463	43.331	24.534	1.00	53.07
ATOM	4708	O	VAL	608	-60.103	44.203	25.117	1.00	51.22
ATOM	4709	N	SER	609	-59.124	42.183	25.106	1.00	52.44
ATOM	4710	CA	SER	609	-59.510	41.870	26.479	1.00	54.11
ATOM	4711	CB	SER	609	-60.784	41.028	26.498	1.00	56.03
ATOM	4712	OG	SER	609	-61.164	40.733	27.832	1.00	57.26
ATOM	4713	C	SER	609	-58.388	41.126	27.192	1.00	56.82
ATOM	4714	O	SER	609	-57.634	40.384	26.568	1.00	55.56
ATOM	4715	N	VAL	610	-58.281	41.318	28.501	1.00	59.31
ATOM	4716	CA	VAL	610	-57.237	40.645	29.260	1.00	64.53
ATOM	4717	CB	VAL	610	-55.904	41.421	29.171	1.00	62.61
ATOM	4718	CG1	VAL	610	-56.039	42.791	29.798	1.00	63.69
ATOM	4719	CG2	VAL	610	-54.790	40.626	29.809	1.00	66.38
ATOM	4720	C	VAL	610	-57.626	40.360	30.714	1.00	72.34
ATOM	4721	O	VAL	610	-58.354	41.136	31.350	1.00	68.49
ATOM	4722	N	ASP	611	-57.172	39.208	31.209	1.00	79.08
ATOM	4723	CA	ASP	611	-57.463	38.768	32.572	1.00	88.91
ATOM	4724	CB	ASP	611	-57.658	37.245	32.624	1.00	92.93
ATOM	4725	CG	ASP	611	-59.106	36.827	32.384	1.00	96.14
ATOM	4726	OD1	ASP	611	-59.993	37.248	33.163	1.00	97.68

ATOM	4727	OD2	ASP	611	-59.354	36.063	31.425	1.00	96.56
ATOM	4728	C	ASP	611	-56.435	39.187	33.618	1.00	91.42
ATOM	4729	O	ASP	611	-55.225	39.201	33.358	1.00	91.33
ATOM	4730	N	SER	612	-56.947	39.485	34.814	1.00	92.19
ATOM	4731	CA	SER	612	-56.146	39.915	35.962	1.00	94.86
ATOM	4732	CB	SER	612	-57.004	40.785	36.886	1.00	96.38
ATOM	4733	OG	SER	612	-58.255	40.168	37.141	1.00	99.14
ATOM	4734	C	SER	612	-55.528	38.752	36.751	1.00	94.17
ATOM	4735	O	SER	612	-55.324	38.838	37.968	1.00	91.36
ATOM	4736	N	ASP	613	-55.226	37.672	36.038	1.00	93.76
ATOM	4737	CA	ASP	613	-54.621	36.484	36.622	1.00	91.81
ATOM	4738	CB	ASP	613	-54.434	35.428	35.536	1.00	93.02
ATOM	4739	CG	ASP	613	-53.444	34.360	35.932	1.00	97.27
ATOM	4740	OD1	ASP	613	-53.803	33.499	36.763	1.00	100.00
ATOM	4741	OD2	ASP	613	-52.297	34.403	35.427	1.00	98.90
ATOM	4742	C	ASP	613	-53.276	36.811	37.274	1.00	90.23
ATOM	4743	O	ASP	613	-52.452	37.523	36.690	1.00	90.35
ATOM	4744	N	GLN	614	-53.064	36.253	38.467	1.00	87.01
ATOM	4745	CA	GLN	614	-51.842	36.445	39.262	1.00	85.13
ATOM	4746	CB	GLN	614	-50.609	35.906	38.524	1.00	86.84
ATOM	4747	CG	GLN	614	-49.491	35.451	39.457	1.00	94.37
ATOM	4748	CD	GLN	614	-49.887	34.252	40.320	1.00	98.07
ATOM	4749	OE1	GLN	614	-49.513	33.113	40.029	1.00	99.32
ATOM	4750	NE2	GLN	614	-50.645	34.509	41.386	1.00	93.39
ATOM	4751	C	GLN	614	-51.664	37.920	39.620	1.00	80.47
ATOM	4752	O	GLN	614	-50.720	38.576	39.186	1.00	77.64
ATOM	4753	N	LYS	615	-52.555	38.394	40.485	1.00	76.51
ATOM	4754	CA	LYS	615	-52.621	39.784	40.921	1.00	75.26
ATOM	4755	CB	LYS	615	-53.899	39.976	41.733	1.00	81.54
ATOM	4756	CG	LYS	615	-55.160	39.677	40.938	1.00	88.80
ATOM	4757	CD	LYS	615	-56.415	39.966	41.741	1.00	93.67
ATOM	4758	CE	LYS	615	-56.519	41.436	42.104	1.00	96.17
ATOM	4759	NZ	LYS	615	-57.719	41.689	42.948	1.00	100.00
ATOM	4760	C	LYS	615	-51.458	40.520	41.608	1.00	73.82
ATOM	4761	O	LYS	615	-51.655	41.643	42.083	1.00	76.83
ATOM	4762	N	LYS	616	-50.256	39.944	41.637	1.00	67.83
ATOM	4763	CA	LYS	616	-49.121	40.630	42.277	1.00	59.98
ATOM	4764	CB	LYS	616	-49.266	40.612	43.809	1.00	60.93
ATOM	4765	CG	LYS	616	-49.883	39.337	44.379	1.00	67.81
ATOM	4766	CD	LYS	616	-49.011	38.109	44.133	1.00	72.70
ATOM	4767	CE	LYS	616	-49.814	36.814	44.207	1.00	72.59
ATOM	4768	NZ	LYS	616	-50.762	36.672	43.060	1.00	76.30
ATOM	4769	C	LYS	616	-47.731	40.148	41.880	1.00	49.89
ATOM	4770	O	LYS	616	-47.549	39.014	41.451	1.00	53.52
ATOM	4771	N	ILE	617	-46.757	41.043	41.985	1.00	43.49
ATOM	4772	CA	ILE	617	-45.371	40.714	41.672	1.00	47.23
ATOM	4773	CB	ILE	617	-44.991	41.077	40.243	1.00	39.20
ATOM	4774	CG2	ILE	617	-45.571	40.066	39.281	1.00	38.49
ATOM	4775	CG1	ILE	617	-45.439	42.496	39.930	1.00	39.20
ATOM	4776	CD1	ILE	617	-45.151	42.899	38.534	1.00	41.17
ATOM	4777	C	ILE	617	-44.441	41.418	42.650	1.00	49.19
ATOM	4778	O	ILE	617	-44.219	42.630	42.565	1.00	50.42
ATOM	4779	N	TYR	618	-43.903	40.619	43.570	1.00	51.34
ATOM	4780	CA	TYR	618	-43.011	41.055	44.645	1.00	44.44
ATOM	4781	CB	TYR	618	-42.742	39.879	45.587	1.00	50.94
ATOM	4782	CG	TYR	618	-43.967	39.027	45.842	1.00	51.76
ATOM	4783	CD1	TYR	618	-44.148	37.823	45.166	1.00	54.78

ATOM	4784	CE1	TYR	618	-45.281	37.045	45.379	1.00	58.91
ATOM	4785	CD2	TYR	618	-44.953	39.434	46.742	1.00	53.26
ATOM	4786	CE2	TYR	618	-46.090	38.664	46.962	1.00	51.48
ATOM	4787	CZ	TYR	618	-46.245	37.471	46.277	1.00	55.49
ATOM	4788	OH	TYR	618	-47.350	36.685	46.498	1.00	57.69
ATOM	4789	C	TYR	618	-41.701	41.700	44.205	1.00	37.83
ATOM	4790	O	TYR	618	-40.912	41.129	43.436	1.00	27.15
ATOM	4791	N	ILE	619	-41.471	42.885	44.759	1.00	38.12
ATOM	4792	CA	ILE	619	-40.301	43.695	44.470	1.00	43.02
ATOM	4793	CB	ILE	619	-40.363	45.002	45.252	1.00	38.03
ATOM	4794	CG2	ILE	619	-39.128	45.826	44.964	1.00	45.45
ATOM	4795	CG1	ILE	619	-41.647	45.756	44.885	1.00	38.59
ATOM	4796	CD1	ILE	619	-41.907	47.023	45.685	1.00	35.35
ATOM	4797	C	ILE	619	-38.978	43.000	44.749	1.00	49.07
ATOM	4798	O	ILE	619	-38.713	42.593	45.878	1.00	48.60
ATOM	4799	N	GLY	620	-38.162	42.863	43.704	1.00	52.72
ATOM	4800	CA	GLY	620	-36.870	42.221	43.845	1.00	57.54
ATOM	4801	C	GLY	620	-36.385	41.468	42.618	1.00	64.08
ATOM	4802	O	GLY	620	-35.706	42.028	41.758	1.00	65.99
ATOM	4803	N	ASP	621	-36.759	40.195	42.529	1.00	69.18
ATOM	4804	CA	ASP	621	-36.342	39.317	41.435	1.00	74.86
ATOM	4805	CB	ASP	621	-36.482	37.849	41.869	1.00	75.56
ATOM	4806	CG	ASP	621	-37.922	37.461	42.199	1.00	75.87
ATOM	4807	OD1	ASP	621	-38.318	37.533	43.382	1.00	73.34
ATOM	4808	OD2	ASP	621	-38.655	37.066	41.270	1.00	79.40
ATOM	4809	C	ASP	621	-37.017	39.511	40.077	1.00	72.68
ATOM	4810	O	ASP	621	-37.572	40.569	39.780	1.00	73.77
ATOM	4811	N	ASP	622	-36.905	38.478	39.245	1.00	71.93
ATOM	4812	CA	ASP	622	-37.495	38.453	37.915	1.00	70.43
ATOM	4813	CB	ASP	622	-36.582	37.718	36.926	1.00	76.64
ATOM	4814	CG	ASP	622	-35.204	38.350	36.810	1.00	79.94
ATOM	4815	OD1	ASP	622	-34.278	37.665	36.319	1.00	80.55
ATOM	4816	OD2	ASP	622	-35.047	39.528	37.208	1.00	79.84
ATOM	4817	C	ASP	622	-38.811	37.707	38.027	1.00	66.91
ATOM	4818	O	ASP	622	-38.856	36.486	37.873	1.00	64.19
ATOM	4819	N	ASN	623	-39.868	38.447	38.341	1.00	65.20
ATOM	4820	CA	ASN	623	-41.201	37.880	38.493	1.00	61.78
ATOM	4821	CB	ASN	623	-42.125	38.887	39.176	1.00	62.71
ATOM	4822	CG	ASN	623	-41.890	38.984	40.663	1.00	63.00
ATOM	4823	OD1	ASN	623	-42.655	38.429	41.454	1.00	63.63
ATOM	4824	ND2	ASN	623	-40.839	39.702	41.060	1.00	65.80
ATOM	4825	C	ASN	623	-41.817	37.469	37.165	1.00	57.99
ATOM	4826	O	ASN	623	-41.909	38.275	36.243	1.00	61.93
ATOM	4827	N	PRO	624	-42.230	36.199	37.043	1.00	55.56
ATOM	4828	CD	PRO	624	-41.989	35.084	37.974	1.00	55.78
ATOM	4829	CA	PRO	624	-42.841	35.717	35.804	1.00	55.22
ATOM	4830	CB	PRO	624	-42.516	34.229	35.834	1.00	53.78
ATOM	4831	CG	PRO	624	-42.660	33.910	37.274	1.00	55.32
ATOM	4832	C	PRO	624	-44.340	35.944	35.878	1.00	54.79
ATOM	4833	O	PRO	624	-44.935	35.797	36.945	1.00	58.31
ATOM	4834	N	LEU	625	-44.942	36.350	34.768	1.00	54.50
ATOM	4835	CA	LEU	625	-46.383	36.568	34.742	1.00	53.52
ATOM	4836	CB	LEU	625	-46.761	37.984	35.196	1.00	58.40
ATOM	4837	CG	LEU	625	-46.622	39.132	34.191	1.00	63.97
ATOM	4838	CD1	LEU	625	-47.574	40.260	34.555	1.00	57.13
ATOM	4839	CD2	LEU	625	-45.177	39.609	34.130	1.00	63.66
ATOM	4840	C	LEU	625	-46.905	36.323	33.346	1.00	52.19

ATOM	4841	O	LEU	625	-46.155	36.381	32.368	1.00	48.26
ATOM	4842	N	THR	626	-48.204	36.089	33.250	1.00	48.30
ATOM	4843	CA	THR	626	-48.794	35.828	31.960	1.00	49.19
ATOM	4844	CB	THR	626	-49.069	34.334	31.798	1.00	45.65
ATOM	4845	OG1	THR	626	-47.898	33.606	32.182	1.00	46.23
ATOM	4846	CG2	THR	626	-49.383	34.003	30.352	1.00	48.37
ATOM	4847	C	THR	626	-50.063	36.627	31.732	1.00	51.64
ATOM	4848	O	THR	626	-50.887	36.790	32.638	1.00	56.81
ATOM	4849	N	LEU	627	-50.180	37.166	30.518	1.00	48.37
ATOM	4850	CA	LEU	627	-51.338	37.949	30.127	1.00	42.52
ATOM	4851	CB	LEU	627	-50.899	39.215	29.396	1.00	36.71
ATOM	4852	CG	LEU	627	-49.882	40.082	30.142	1.00	38.80
ATOM	4853	CD1	LEU	627	-49.795	41.458	29.505	1.00	35.66
ATOM	4854	CD2	LEU	627	-50.276	40.221	31.598	1.00	34.84
ATOM	4855	C	LEU	627	-52.221	37.098	29.231	1.00	43.88
ATOM	4856	O	LEU	627	-51.769	36.573	28.215	1.00	43.90
ATOM	4857	N	ILE	628	-53.469	36.916	29.646	1.00	43.25
ATOM	4858	CA	ILE	628	-54.418	36.130	28.872	1.00	43.16
ATOM	4859	CB	ILE	628	-55.300	35.277	29.799	1.00	43.42
ATOM	4860	CG2	ILE	628	-56.377	34.552	29.002	1.00	42.25
ATOM	4861	CG1	ILE	628	-54.416	34.280	30.554	1.00	43.00
ATOM	4862	CD1	ILE	628	-53.434	33.525	29.655	1.00	36.10
ATOM	4863	C	ILE	628	-55.262	37.059	28.008	1.00	44.92
ATOM	4864	O	ILE	628	-56.295	37.576	28.443	1.00	47.65
ATOM	4865	N	VAL	629	-54.795	37.265	26.779	1.00	44.12
ATOM	4866	CA	VAL	629	-55.444	38.156	25.816	1.00	47.88
ATOM	4867	CB	VAL	629	-54.386	38.778	24.853	1.00	49.20
ATOM	4868	CG1	VAL	629	-53.373	39.597	25.647	1.00	42.92
ATOM	4869	CG2	VAL	629	-53.656	37.684	24.064	1.00	48.89
ATOM	4870	C	VAL	629	-56.579	37.534	24.995	1.00	46.70
ATOM	4871	O	VAL	629	-56.509	36.373	24.605	1.00	50.99
ATOM	4872	N	LYS	630	-57.631	38.313	24.748	1.00	50.29
ATOM	4873	CA	LYS	630	-58.776	37.852	23.956	1.00	52.90
ATOM	4874	CB	LYS	630	-60.011	37.635	24.844	1.00	52.98
ATOM	4875	CG	LYS	630	-61.223	37.065	24.111	1.00	55.65
ATOM	4876	CD	LYS	630	-62.401	36.851	25.050	1.00	59.79
ATOM	4877	CE	LYS	630	-62.089	35.807	26.119	1.00	64.25
ATOM	4878	NZ	LYS	630	-63.207	35.632	27.097	1.00	66.28
ATOM	4879	C	LYS	630	-59.078	38.868	22.844	1.00	51.65
ATOM	4880	O	LYS	630	-59.779	39.865	23.057	1.00	52.38
ATOM	4881	N	ALA	631	-58.520	38.604	21.665	1.00	46.38
ATOM	4882	CA	ALA	631	-58.678	39.466	20.501	1.00	41.61
ATOM	4883	CB	ALA	631	-57.351	39.591	19.768	1.00	45.22
ATOM	4884	C	ALA	631	-59.752	38.965	19.547	1.00	41.29
ATOM	4885	O	ALA	631	-59.550	37.991	18.826	1.00	43.25
ATOM	4886	N	GLN	632	-60.871	39.679	19.501	1.00	39.87
ATOM	4887	CA	GLN	632	-61.979	39.304	18.640	1.00	40.41
ATOM	4888	CB	GLN	632	-63.207	38.987	19.488	1.00	35.33
ATOM	4889	CG	GLN	632	-63.345	39.903	20.671	1.00	39.19
ATOM	4890	CD	GLN	632	-64.505	39.551	21.563	1.00	43.45
ATOM	4891	OE1	GLN	632	-65.558	39.127	21.087	1.00	41.17
ATOM	4892	NE2	GLN	632	-64.331	39.745	22.873	1.00	48.06
ATOM	4893	C	GLN	632	-62.306	40.370	17.611	1.00	38.41
ATOM	4894	O	GLN	632	-61.892	41.521	17.743	1.00	38.92
ATOM	4895	N	ASN	633	-63.040	39.951	16.580	1.00	42.88
ATOM	4896	CA	ASN	633	-63.474	40.797	15.467	1.00	43.51
ATOM	4897	CB	ASN	633	-62.719	40.386	14.191	1.00	36.38

ATOM	4898	CG	ASN	633	-62.920	41.357	13.030	1.00	32.63
ATOM	4899	OD1	ASN	633	-63.551	42.408	13.167	1.00	28.61
ATOM	4900	ND2	ASN	633	-62.364	41.005	11.879	1.00	19.73
ATOM	4901	C	ASN	633	-64.974	40.556	15.274	1.00	47.19
ATOM	4902	O	ASN	633	-65.377	39.463	14.875	1.00	49.97
ATOM	4903	N	GLN	634	-65.799	41.553	15.595	1.00	51.54
ATOM	4904	CA	GLN	634	-67.253	41.420	15.437	1.00	55.72
ATOM	4905	CB	GLN	634	-67.995	41.906	16.682	1.00	65.16
ATOM	4906	CG	GLN	634	-68.614	40.767	17.485	1.00	74.32
ATOM	4907	CD	GLN	634	-67.623	39.642	17.743	1.00	76.94
ATOM	4908	OE1	GLN	634	-67.565	38.662	16.992	1.00	76.68
ATOM	4909	NE2	GLN	634	-66.818	39.791	18.790	1.00	80.24
ATOM	4910	C	GLN	634	-67.811	42.088	14.186	1.00	56.79
ATOM	4911	O	GLN	634	-68.987	41.914	13.851	1.00	57.40
ATOM	4912	N	GLY	635	-66.962	42.855	13.508	1.00	53.31
ATOM	4913	CA	GLY	635	-67.364	43.516	12.283	1.00	45.11
ATOM	4914	C	GLY	635	-66.827	42.727	11.104	1.00	40.46
ATOM	4915	O	GLY	635	-66.744	41.497	11.165	1.00	38.08
ATOM	4916	N	GLU	636	-66.416	43.431	10.055	1.00	40.57
ATOM	4917	CA	GLU	636	-65.887	42.794	8.847	1.00	37.88
ATOM	4918	CB	GLU	636	-66.167	43.675	7.632	1.00	40.12
ATOM	4919	CG	GLU	636	-67.650	43.746	7.340	1.00	54.89
ATOM	4920	CD	GLU	636	-68.013	44.780	6.308	1.00	62.40
ATOM	4921	OE1	GLU	636	-68.597	45.813	6.700	1.00	67.40
ATOM	4922	OE2	GLU	636	-67.738	44.557	5.110	1.00	68.96
ATOM	4923	C	GLU	636	-64.419	42.380	8.897	1.00	31.74
ATOM	4924	O	GLU	636	-63.736	42.570	9.908	1.00	26.78
ATOM	4925	N	GLY	637	-63.964	41.754	7.816	1.00	27.85
ATOM	4926	CA	GLY	637	-62.589	41.297	7.737	1.00	25.49
ATOM	4927	C	GLY	637	-61.610	42.438	7.888	1.00	25.56
ATOM	4928	O	GLY	637	-61.721	43.443	7.186	1.00	25.01
ATOM	4929	N	ALA	638	-60.677	42.296	8.828	1.00	23.11
ATOM	4930	CA	ALA	638	-59.666	43.320	9.087	1.00	18.98
ATOM	4931	CB	ALA	638	-59.541	43.569	10.579	1.00	16.94
ATOM	4932	C	ALA	638	-58.327	42.894	8.509	1.00	19.53
ATOM	4933	O	ALA	638	-57.743	41.909	8.950	1.00	23.63
ATOM	4934	N	TYR	639	-57.863	43.630	7.505	1.00	24.66
ATOM	4935	CA	TYR	639	-56.599	43.344	6.833	1.00	30.59
ATOM	4936	CB	TYR	639	-56.442	44.216	5.577	1.00	43.27
ATOM	4937	CG	TYR	639	-57.634	44.208	4.647	1.00	56.00
ATOM	4938	CD1	TYR	639	-57.903	43.109	3.835	1.00	61.31
ATOM	4939	CE1	TYR	639	-59.020	43.087	2.998	1.00	66.33
ATOM	4940	CD2	TYR	639	-58.511	45.290	4.597	1.00	57.61
ATOM	4941	CE2	TYR	639	-59.631	45.278	3.770	1.00	65.99
ATOM	4942	CZ	TYR	639	-59.881	44.173	2.972	1.00	65.51
ATOM	4943	OH	TYR	639	-60.996	44.149	2.158	1.00	69.49
ATOM	4944	C	TYR	639	-55.457	43.650	7.779	1.00	32.17
ATOM	4945	O	TYR	639	-55.543	44.588	8.577	1.00	34.15
ATOM	4946	N	GLU	640	-54.392	42.853	7.686	1.00	30.03
ATOM	4947	CA	GLU	640	-53.199	43.023	8.513	1.00	24.93
ATOM	4948	CB	GLU	640	-52.296	44.096	7.901	1.00	19.96
ATOM	4949	CG	GLU	640	-51.956	43.805	6.446	1.00	30.95
ATOM	4950	CD	GLU	640	-51.041	44.838	5.809	1.00	37.25
ATOM	4951	OE1	GLU	640	-51.487	45.509	4.857	1.00	44.16
ATOM	4952	OE2	GLU	640	-49.874	44.964	6.238	1.00	43.85
ATOM	4953	C	GLU	640	-53.516	43.325	9.983	1.00	20.44
ATOM	4954	O	GLU	640	-53.088	44.338	10.541	1.00	18.17

ATOM	4955	N	ALA	641	-54.308	42.447	10.588	1.00	16.38
ATOM	4956	CA	ALA	641	-54.678	42.591	11.984	1.00	22.44
ATOM	4957	CB	ALA	641	-55.796	41.617	12.332	1.00	28.15
ATOM	4958	C	ALA	641	-53.443	42.301	12.828	1.00	28.24
ATOM	4959	O	ALA	641	-52.616	41.456	12.454	1.00	30.20
ATOM	4960	N	GLU	642	-53.315	43.003	13.950	1.00	27.20
ATOM	4961	CA	GLU	642	-52.170	42.821	14.831	1.00	33.87
ATOM	4962	CB	GLU	642	-50.920	43.433	14.201	1.00	33.16
ATOM	4963	CG	GLU	642	-51.166	44.801	13.595	1.00	50.49
ATOM	4964	CD	GLU	642	-49.950	45.367	12.892	1.00	62.24
ATOM	4965	OE1	GLU	642	-49.988	46.574	12.546	1.00	67.73
ATOM	4966	OE2	GLU	642	-48.966	44.609	12.685	1.00	57.89
ATOM	4967	C	GLU	642	-52.371	43.372	16.238	1.00	36.57
ATOM	4968	O	GLU	642	-52.905	44.467	16.427	1.00	38.79
ATOM	4969	N	LEU	643	-51.948	42.587	17.223	1.00	33.66
ATOM	4970	CA	LEU	643	-52.057	42.964	18.619	1.00	32.60
ATOM	4971	CB	LEU	643	-52.205	41.719	19.487	1.00	33.29
ATOM	4972	CG	LEU	643	-52.343	41.961	20.989	1.00	32.27
ATOM	4973	CD1	LEU	643	-53.655	42.672	21.289	1.00	26.75
ATOM	4974	CD2	LEU	643	-52.272	40.635	21.717	1.00	29.22
ATOM	4975	C	LEU	643	-50.776	43.656	19.001	1.00	29.39
ATOM	4976	O	LEU	643	-49.714	43.049	18.935	1.00	32.37
ATOM	4977	N	ILE	644	-50.864	44.921	19.388	1.00	29.30
ATOM	4978	CA	ILE	644	-49.671	45.655	19.789	1.00	28.70
ATOM	4979	CB	ILE	644	-49.668	47.104	19.262	1.00	27.70
ATOM	4980	CG2	ILE	644	-48.298	47.719	19.479	1.00	29.40
ATOM	4981	CG1	ILE	644	-50.037	47.149	17.777	1.00	27.13
ATOM	4982	CD1	ILE	644	-49.079	46.410	16.871	1.00	26.74
ATOM	4983	C	ILE	644	-49.687	45.723	21.296	1.00	30.69
ATOM	4984	O	ILE	644	-50.501	46.449	21.875	1.00	30.17
ATOM	4985	N	VAL	645	-48.806	44.967	21.942	1.00	30.88
ATOM	4986	CA	VAL	645	-48.780	44.992	23.398	1.00	35.37
ATOM	4987	CB	VAL	645	-48.534	43.608	23.997	1.00	31.97
ATOM	4988	CG1	VAL	645	-48.897	43.618	25.452	1.00	30.23
ATOM	4989	CG2	VAL	645	-49.338	42.565	23.265	1.00	37.36
ATOM	4990	C	VAL	645	-47.710	45.940	23.910	1.00	40.97
ATOM	4991	O	VAL	645	-46.523	45.613	23.880	1.00	43.57
ATOM	4992	N	SER	646	-48.139	47.120	24.361	1.00	40.87
ATOM	4993	CA	SER	646	-47.231	48.135	24.893	1.00	41.48
ATOM	4994	CB	SER	646	-47.938	49.481	25.026	1.00	33.89
ATOM	4995	OG	SER	646	-48.526	49.869	23.806	1.00	34.63
ATOM	4996	C	SER	646	-46.735	47.716	26.264	1.00	46.32
ATOM	4997	O	SER	646	-47.518	47.609	27.212	1.00	44.49
ATOM	4998	N	ILE	647	-45.437	47.452	26.359	1.00	52.69
ATOM	4999	CA	ILE	647	-44.842	47.057	27.628	1.00	57.37
ATOM	5000	CB	ILE	647	-44.051	45.728	27.511	1.00	51.40
ATOM	5001	CG2	ILE	647	-44.903	44.677	26.805	1.00	51.71
ATOM	5002	CG1	ILE	647	-42.737	45.930	26.758	1.00	43.93
ATOM	5003	CD1	ILE	647	-41.840	44.704	26.788	1.00	39.56
ATOM	5004	C	ILE	647	-43.944	48.181	28.153	1.00	62.92
ATOM	5005	O	ILE	647	-43.394	48.968	27.374	1.00	68.26
ATOM	5006	N	PRO	648	-43.820	48.296	29.486	1.00	69.00
ATOM	5007	CD	PRO	648	-44.485	47.455	30.498	1.00	65.51
ATOM	5008	CA	PRO	648	-42.996	49.329	30.125	1.00	70.00
ATOM	5009	CB	PRO	648	-43.327	49.145	31.605	1.00	69.73
ATOM	5010	CG	PRO	648	-43.623	47.676	31.701	1.00	68.64
ATOM	5011	C	PRO	648	-41.492	49.197	29.855	1.00	67.67

ATOM	5012	O	PRO	648	-41.071	48.918	28.732	1.00	66.35
ATOM	5013	N	LEU	649	-40.688	49.455	30.880	1.00	63.67
ATOM	5014	CA	LEU	649	-39.245	49.353	30.759	1.00	63.00
ATOM	5015	CB	LEU	649	-38.584	50.674	31.139	1.00	63.79
ATOM	5016	CG	LEU	649	-38.059	51.453	29.936	1.00	67.25
ATOM	5017	CD1	LEU	649	-37.499	52.790	30.382	1.00	68.02
ATOM	5018	CD2	LEU	649	-36.991	50.632	29.215	1.00	69.11
ATOM	5019	C	LEU	649	-38.710	48.232	31.631	1.00	61.77
ATOM	5020	O	LEU	649	-37.641	47.678	31.363	1.00	61.42
ATOM	5021	N	GLN	650	-39.467	47.909	32.674	1.00	62.47
ATOM	5022	CA	GLN	650	-39.114	46.851	33.616	1.00	57.81
ATOM	5023	CB	GLN	650	-39.943	46.974	34.895	1.00	51.68
ATOM	5024	CG	GLN	650	-40.014	48.376	35.484	1.00	51.68
ATOM	5025	CD	GLN	650	-41.186	49.205	34.973	1.00	41.79
ATOM	5026	OE1	GLN	650	-41.063	49.958	33.995	1.00	36.48
ATOM	5027	NE2	GLN	650	-42.321	49.096	35.656	1.00	25.28
ATOM	5028	C	GLN	650	-39.425	45.508	32.989	1.00	61.58
ATOM	5029	O	GLN	650	-38.726	44.522	33.228	1.00	68.92
ATOM	5030	N	ALA	651	-40.484	45.490	32.182	1.00	62.26
ATOM	5031	CA	ALA	651	-40.959	44.285	31.515	1.00	58.19
ATOM	5032	CB	ALA	651	-42.299	44.555	30.858	1.00	60.65
ATOM	5033	C	ALA	651	-40.001	43.667	30.510	1.00	55.87
ATOM	5034	O	ALA	651	-39.051	44.300	30.053	1.00	52.21
ATOM	5035	N	ASP	652	-40.287	42.424	30.154	1.00	58.31
ATOM	5036	CA	ASP	652	-39.469	41.697	29.204	1.00	63.42
ATOM	5037	CB	ASP	652	-38.284	41.074	29.930	1.00	70.99
ATOM	5038	CG	ASP	652	-37.009	41.162	29.131	1.00	76.55
ATOM	5039	OD1	ASP	652	-36.450	42.277	29.025	1.00	79.37
ATOM	5040	OD2	ASP	652	-36.574	40.115	28.608	1.00	78.70
ATOM	5041	C	ASP	652	-40.318	40.615	28.555	1.00	60.65
ATOM	5042	O	ASP	652	-41.016	39.871	29.245	1.00	65.76
ATOM	5043	N	PHE	653	-40.282	40.541	27.229	1.00	58.83
ATOM	5044	CA	PHE	653	-41.071	39.543	26.520	1.00	59.06
ATOM	5045	CB	PHE	653	-41.458	40.040	25.122	1.00	51.59
ATOM	5046	CG	PHE	653	-42.260	39.043	24.321	1.00	40.04
ATOM	5047	CD1	PHE	653	-43.390	38.446	24.860	1.00	36.49
ATOM	5048	CD2	PHE	653	-41.868	38.688	23.034	1.00	34.59
ATOM	5049	CE1	PHE	653	-44.107	37.509	24.133	1.00	33.92
ATOM	5050	CE2	PHE	653	-42.581	37.748	22.300	1.00	29.57
ATOM	5051	CZ	PHE	653	-43.701	37.158	22.850	1.00	29.93
ATOM	5052	C	PHE	653	-40.359	38.206	26.419	1.00	61.51
ATOM	5053	O	PHE	653	-39.294	38.101	25.814	1.00	64.50
ATOM	5054	N	ILE	654	-40.955	37.183	27.019	1.00	62.92
ATOM	5055	CA	ILE	654	-40.372	35.850	26.974	1.00	68.75
ATOM	5056	CB	ILE	654	-40.735	35.024	28.237	1.00	69.85
ATOM	5057	CG2	ILE	654	-40.041	33.656	28.193	1.00	66.10
ATOM	5058	CG1	ILE	654	-40.333	35.794	29.503	1.00	68.94
ATOM	5059	CD1	ILE	654	-40.652	35.075	30.806	1.00	67.69
ATOM	5060	C	ILE	654	-40.856	35.130	25.712	1.00	70.34
ATOM	5061	O	ILE	654	-40.043	34.726	24.867	1.00	70.88
ATOM	5062	N	GLY	655	-42.178	35.011	25.579	1.00	73.03
ATOM	5063	CA	GLY	655	-42.777	34.344	24.431	1.00	69.84
ATOM	5064	C	GLY	655	-44.289	34.238	24.550	1.00	66.37
ATOM	5065	O	GLY	655	-44.926	35.062	25.204	1.00	64.34
ATOM	5066	N	VAL	656	-44.865	33.220	23.919	1.00	67.97
ATOM	5067	CA	VAL	656	-46.310	33.009	23.959	1.00	71.88
ATOM	5068	CB	VAL	656	-46.884	32.683	22.552	1.00	73.18

ATOM	5069	CG1	VAL	656	-46.894	33.936	21.696	1.00	75.12
ATOM	5070	CG2	VAL	656	-46.067	31.585	21.870	1.00	75.20
ATOM	5071	C	VAL	656	-46.729	31.931	24.963	1.00	73.52
ATOM	5072	O	VAL	656	-46.823	32.205	26.160	1.00	71.08
ATOM	5073	N	VAL	657	-47.030	30.732	24.467	1.00	75.90
ATOM	5074	CA	VAL	657	-47.429	29.611	25.315	1.00	80.15
ATOM	5075	CB	VAL	657	-48.975	29.553	25.580	1.00	78.62
ATOM	5076	CG1	VAL	657	-49.377	30.615	26.588	1.00	70.32
ATOM	5077	CG2	VAL	657	-49.764	29.706	24.282	1.00	81.65
ATOM	5078	C	VAL	657	-46.936	28.250	24.811	1.00	84.97
ATOM	5079	O	VAL	657	-45.804	27.856	25.106	1.00	87.16
ATOM	5080	N	ARG	658	-47.777	27.546	24.050	1.00	85.34
ATOM	5081	CA	ARG	658	-47.458	26.214	23.531	1.00	83.49
ATOM	5082	CB	ARG	658	-46.092	26.198	22.828	1.00	83.27
ATOM	5083	CG	ARG	658	-46.090	26.934	21.499	1.00	84.81
ATOM	5084	CD	ARG	658	-44.798	27.695	21.277	1.00	93.78
ATOM	5085	NE	ARG	658	-43.647	26.824	21.045	1.00	98.69
ATOM	5086	CZ	ARG	658	-42.404	27.260	20.854	1.00	98.95
ATOM	5087	NH1	ARG	658	-42.138	28.564	20.870	1.00	98.33
ATOM	5088	NH2	ARG	658	-41.422	26.394	20.625	1.00	100.00
ATOM	5089	C	ARG	658	-47.538	25.146	24.631	1.00	80.05
ATOM	5090	O	ARG	658	-47.567	23.952	24.334	1.00	80.40
ATOM	5091	N	ASN	659	-47.562	25.582	25.895	1.00	75.41
ATOM	5092	CA	ASN	659	-47.683	24.672	27.039	1.00	70.97
ATOM	5093	CB	ASN	659	-46.646	24.967	28.153	1.00	68.34
ATOM	5094	CG	ASN	659	-46.767	26.372	28.746	1.00	66.39
ATOM	5095	OD1	ASN	659	-47.370	26.571	29.809	1.00	56.93
ATOM	5096	ND2	ASN	659	-46.141	27.340	28.084	1.00	64.10
ATOM	5097	C	ASN	659	-49.119	24.687	27.577	1.00	67.20
ATOM	5098	O	ASN	659	-49.370	24.478	28.765	1.00	63.97
ATOM	5099	N	ASN	660	-50.054	24.941	26.670	1.00	69.09
ATOM	5100	CA	ASN	660	-51.477	24.970	26.983	1.00	72.62
ATOM	5101	CB	ASN	660	-51.886	26.302	27.615	1.00	69.91
ATOM	5102	CG	ASN	660	-53.287	26.256	28.203	1.00	66.48
ATOM	5103	OD1	ASN	660	-54.264	26.063	27.483	1.00	56.88
ATOM	5104	ND2	ASN	660	-53.383	26.404	29.520	1.00	68.47
ATOM	5105	C	ASN	660	-52.240	24.739	25.686	1.00	74.18
ATOM	5106	O	ASN	660	-51.817	25.189	24.619	1.00	77.65
ATOM	5107	N	GLU	661	-53.364	24.040	25.790	1.00	74.96
ATOM	5108	CA	GLU	661	-54.186	23.706	24.633	1.00	78.85
ATOM	5109	CB	GLU	661	-54.819	22.330	24.845	1.00	87.36
ATOM	5110	CG	GLU	661	-55.653	21.820	23.673	1.00	95.07
ATOM	5111	CD	GLU	661	-56.480	20.588	24.021	1.00	98.78
ATOM	5112	OE1	GLU	661	-57.106	20.025	23.096	1.00	100.00
ATOM	5113	OE2	GLU	661	-56.517	20.185	25.209	1.00	97.98
ATOM	5114	C	GLU	661	-55.272	24.726	24.308	1.00	76.28
ATOM	5115	O	GLU	661	-55.655	24.884	23.146	1.00	74.33
ATOM	5116	N	ALA	662	-55.790	25.386	25.340	1.00	78.28
ATOM	5117	CA	ALA	662	-56.847	26.380	25.168	1.00	78.28
ATOM	5118	CB	ALA	662	-57.600	26.576	26.480	1.00	78.99
ATOM	5119	C	ALA	662	-56.326	27.722	24.650	1.00	77.30
ATOM	5120	O	ALA	662	-57.113	28.631	24.364	1.00	78.15
ATOM	5121	N	LEU	663	-55.004	27.838	24.523	1.00	72.07
ATOM	5122	CA	LEU	663	-54.386	29.069	24.045	1.00	66.41
ATOM	5123	CB	LEU	663	-53.325	29.565	25.033	1.00	65.96
ATOM	5124	CG	LEU	663	-53.836	30.089	26.379	1.00	63.66
ATOM	5125	CD1	LEU	663	-52.663	30.530	27.223	1.00	62.82

ATOM	5126	CD2	LEU	663	-54.815	31.243	26.178	1.00	59.74
ATOM	5127	C	LEU	663	-53.770	28.948	22.664	1.00	61.74
ATOM	5128	O	LEU	663	-52.951	28.064	22.417	1.00	57.56
ATOM	5129	N	ALA	664	-54.167	29.858	21.778	1.00	56.66
ATOM	5130	CA	ALA	664	-53.662	29.908	20.412	1.00	54.98
ATOM	5131	CB	ALA	664	-54.542	30.814	19.571	1.00	51.54
ATOM	5132	C	ALA	664	-52.211	30.406	20.404	1.00	57.07
ATOM	5133	O	ALA	664	-51.788	31.142	21.304	1.00	54.04
ATOM	5134	N	ARG	665	-51.455	29.994	19.389	1.00	58.82
ATOM	5135	CA	ARG	665	-50.044	30.376	19.262	1.00	59.62
ATOM	5136	CB	ARG	665	-49.198	29.163	18.862	1.00	66.10
ATOM	5137	CG	ARG	665	-49.695	27.829	19.385	1.00	69.94
ATOM	5138	CD	ARG	665	-48.964	26.698	18.693	1.00	75.84
ATOM	5139	NE	ARG	665	-49.506	25.390	19.043	1.00	81.65
ATOM	5140	CZ	ARG	665	-48.791	24.402	19.572	1.00	83.09
ATOM	5141	NH1	ARG	665	-47.497	24.572	19.822	1.00	82.66
ATOM	5142	NH2	ARG	665	-49.369	23.237	19.829	1.00	82.76
ATOM	5143	C	ARG	665	-49.840	31.479	18.222	1.00	55.85
ATOM	5144	O	ARG	665	-49.408	31.215	17.092	1.00	54.41
ATOM	5145	N	LEU	666	-50.123	32.716	18.616	1.00	47.76
ATOM	5146	CA	LEU	666	-49.972	33.857	17.721	1.00	45.96
ATOM	5147	CB	LEU	666	-50.290	35.144	18.461	1.00	35.81
ATOM	5148	CG	LEU	666	-51.607	35.072	19.210	1.00	34.02
ATOM	5149	CD1	LEU	666	-51.951	36.458	19.691	1.00	44.46
ATOM	5150	CD2	LEU	666	-52.706	34.530	18.306	1.00	38.98
ATOM	5151	C	LEU	666	-48.562	33.936	17.179	1.00	44.72
ATOM	5152	O	LEU	666	-47.658	33.279	17.694	1.00	44.57
ATOM	5153	N	SER	667	-48.379	34.734	16.137	1.00	43.47
ATOM	5154	CA	SER	667	-47.062	34.892	15.538	1.00	47.19
ATOM	5155	CB	SER	667	-47.184	34.892	14.011	1.00	53.60
ATOM	5156	OG	SER	667	-48.065	33.865	13.565	1.00	49.96
ATOM	5157	C	SER	667	-46.423	36.189	16.047	1.00	46.11
ATOM	5158	O	SER	667	-46.005	37.046	15.262	1.00	44.09
ATOM	5159	N	CYS	668	-46.341	36.307	17.377	1.00	45.46
ATOM	5160	CA	CYS	668	-45.777	37.483	18.043	1.00	46.77
ATOM	5161	C	CYS	668	-44.302	37.737	17.751	1.00	46.06
ATOM	5162	O	CYS	668	-43.611	36.875	17.203	1.00	53.90
ATOM	5163	CB	CYS	668	-45.989	37.396	19.551	1.00	44.25
ATOM	5164	SG	CYS	668	-47.737	37.300	20.060	1.00	58.35
ATOM	5165	N	ALA	669	-43.826	38.925	18.118	1.00	39.14
ATOM	5166	CA	ALA	669	-42.436	39.295	17.890	1.00	36.09
ATOM	5167	CB	ALA	669	-42.136	39.306	16.398	1.00	34.86
ATOM	5168	C	ALA	669	-42.117	40.653	18.497	1.00	39.31
ATOM	5169	O	ALA	669	-42.561	41.682	17.993	1.00	39.43
ATOM	5170	N	PHE	670	-41.314	40.646	19.556	1.00	40.57
ATOM	5171	CA	PHE	670	-40.912	41.863	20.263	1.00	43.88
ATOM	5172	CB	PHE	670	-39.972	41.496	21.417	1.00	46.48
ATOM	5173	CG	PHE	670	-39.528	42.669	22.246	1.00	49.58
ATOM	5174	CD1	PHE	670	-38.578	43.564	21.766	1.00	49.95
ATOM	5175	CD2	PHE	670	-40.051	42.870	23.517	1.00	53.81
ATOM	5176	CE1	PHE	670	-38.163	44.642	22.529	1.00	55.47
ATOM	5177	CE2	PHE	670	-39.641	43.948	24.292	1.00	58.72
ATOM	5178	CZ	PHE	670	-38.691	44.836	23.797	1.00	59.56
ATOM	5179	C	PHE	670	-40.215	42.871	19.359	1.00	43.91
ATOM	5180	O	PHE	670	-39.404	42.502	18.520	1.00	48.49
ATOM	5181	N	LYS	671	-40.505	44.147	19.562	1.00	43.80
ATOM	5182	CA	LYS	671	-39.871	45.192	18.779	1.00	53.33

ATOM	5183	CB	LYS	671	-40.583	45.412	17.444	1.00	58.32
ATOM	5184	CG	LYS	671	-39.933	46.513	16.589	1.00	63.28
ATOM	5185	CD	LYS	671	-40.748	46.874	15.341	1.00	61.64
ATOM	5186	CE	LYS	671	-41.979	47.710	15.675	1.00	59.66
ATOM	5187	NZ	LYS	671	-42.737	48.120	14.455	1.00	55.89
ATOM	5188	C	LYS	671	-39.897	46.485	19.556	1.00	63.26
ATOM	5189	O	LYS	671	-40.925	46.857	20.115	1.00	67.17
ATOM	5190	N	THR	672	-38.748	47.143	19.626	1.00	73.00
ATOM	5191	CA	THR	672	-38.635	48.428	20.309	1.00	80.21
ATOM	5192	CB	THR	672	-37.300	48.576	21.078	1.00	81.01
ATOM	5193	OG1	THR	672	-36.237	47.962	20.331	1.00	84.05
ATOM	5194	CG2	THR	672	-37.403	47.958	22.462	1.00	79.66
ATOM	5195	C	THR	672	-38.685	49.482	19.223	1.00	82.08
ATOM	5196	O	THR	672	-39.624	50.278	19.154	1.00	80.62
ATOM	5197	N	GLU	673	-37.680	49.434	18.350	1.00	87.56
ATOM	5198	CA	GLU	673	-37.554	50.350	17.230	1.00	91.33
ATOM	5199	CB	GLU	673	-38.634	50.042	16.198	1.00	90.26
ATOM	5200	CG	GLU	673	-38.533	50.835	14.926	1.00	87.94
ATOM	5201	CD	GLU	673	-39.683	50.537	14.008	1.00	88.30
ATOM	5202	OE1	GLU	673	-39.549	49.623	13.167	1.00	88.47
ATOM	5203	OE2	GLU	673	-40.730	51.197	14.148	1.00	88.02
ATOM	5204	C	GLU	673	-37.646	51.795	17.711	1.00	93.75
ATOM	5205	O	GLU	673	-36.621	52.428	17.959	1.00	97.03
ATOM	5206	N	ASN	674	-38.873	52.295	17.867	1.00	95.66
ATOM	5207	CA	ASN	674	-39.127	53.661	18.332	1.00	95.78
ATOM	5208	CB	ASN	674	-40.519	54.118	17.855	1.00	93.98
ATOM	5209	CG	ASN	674	-40.782	55.595	18.122	1.00	90.55
ATOM	5210	OD1	ASN	674	-40.279	56.467	17.412	1.00	89.86
ATOM	5211	ND2	ASN	674	-41.576	55.879	19.148	1.00	87.35
ATOM	5212	C	ASN	674	-39.036	53.733	19.864	1.00	94.59
ATOM	5213	O	ASN	674	-38.744	52.728	20.524	1.00	92.21
ATOM	5214	N	GLN	675	-39.254	54.933	20.413	1.00	93.13
ATOM	5215	CA	GLN	675	-39.224	55.171	21.857	1.00	90.67
ATOM	5216	CB	GLN	675	-39.285	56.677	22.168	1.00	95.27
ATOM	5217	CG	GLN	675	-38.187	57.541	21.536	1.00	99.81
ATOM	5218	CD	GLN	675	-38.490	57.952	20.098	1.00	100.00
ATOM	5219	OE1	GLN	675	-37.933	57.395	19.150	1.00	100.00
ATOM	5220	NE2	GLN	675	-39.363	58.943	19.931	1.00	98.76
ATOM	5221	C	GLN	675	-40.433	54.471	22.487	1.00	87.78
ATOM	5222	O	GLN	675	-41.255	55.095	23.164	1.00	89.82
ATOM	5223	N	THR	676	-40.530	53.169	22.231	1.00	80.39
ATOM	5224	CA	THR	676	-41.607	52.327	22.727	1.00	70.96
ATOM	5225	CB	THR	676	-42.922	52.568	21.959	1.00	68.15
ATOM	5226	OG1	THR	676	-43.857	51.536	22.298	1.00	68.05
ATOM	5227	CG2	THR	676	-42.686	52.553	20.448	1.00	58.72
ATOM	5228	C	THR	676	-41.233	50.869	22.542	1.00	65.13
ATOM	5229	O	THR	676	-40.736	50.477	21.489	1.00	65.18
ATOM	5230	N	ARG	677	-41.462	50.073	23.577	1.00	61.29
ATOM	5231	CA	ARG	677	-41.180	48.645	23.529	1.00	61.60
ATOM	5232	CB	ARG	677	-40.517	48.204	24.837	1.00	60.63
ATOM	5233	CG	ARG	677	-39.399	49.146	25.296	1.00	61.67
ATOM	5234	CD	ARG	677	-38.840	48.768	26.654	1.00	56.99
ATOM	5235	NE	ARG	677	-38.209	47.450	26.644	1.00	56.34
ATOM	5236	CZ	ARG	677	-38.569	46.442	27.431	1.00	56.31
ATOM	5237	NH1	ARG	677	-39.560	46.592	28.303	1.00	57.45
ATOM	5238	NH2	ARG	677	-37.942	45.276	27.346	1.00	54.36
ATOM	5239	C	ARG	677	-42.559	48.009	23.363	1.00	59.08

ATOM	5240	O	ARG	677	-43.506	48.417	24.042	1.00	63.57
ATOM	5241	N	GLN	678	-42.692	47.057	22.437	1.00	54.32
ATOM	5242	CA	GLN	678	-43.990	46.414	22.175	1.00	50.08
ATOM	5243	CB	GLN	678	-44.826	47.311	21.251	1.00	54.89
ATOM	5244	CG	GLN	678	-44.031	47.924	20.088	1.00	56.52
ATOM	5245	CD	GLN	678	-44.707	49.139	19.467	1.00	55.62
ATOM	5246	OE1	GLN	678	-44.402	49.522	18.335	1.00	58.25
ATOM	5247	NE2	GLN	678	-45.612	49.760	20.213	1.00	54.10
ATOM	5248	C	GLN	678	-43.924	44.978	21.630	1.00	43.21
ATOM	5249	O	GLN	678	-42.909	44.575	21.054	1.00	38.30
ATOM	5250	N	VAL	679	-45.015	44.222	21.781	1.00	33.44
ATOM	5251	CA	VAL	679	-45.013	42.838	21.329	1.00	35.86
ATOM	5252	CB	VAL	679	-45.688	41.888	22.335	1.00	37.07
ATOM	5253	CG1	VAL	679	-45.974	40.517	21.712	1.00	19.84
ATOM	5254	CG2	VAL	679	-44.760	41.694	23.517	1.00	41.44
ATOM	5255	C	VAL	679	-45.441	42.517	19.918	1.00	38.80
ATOM	5256	O	VAL	679	-44.793	41.690	19.283	1.00	45.16
ATOM	5257	N	VAL	680	-46.519	43.122	19.422	1.00	37.74
ATOM	5258	CA	VAL	680	-46.971	42.854	18.041	1.00	43.99
ATOM	5259	CB	VAL	680	-45.968	43.429	16.988	1.00	41.63
ATOM	5260	CG1	VAL	680	-46.437	43.122	15.572	1.00	40.21
ATOM	5261	CG2	VAL	680	-45.785	44.925	17.181	1.00	36.07
ATOM	5262	C	VAL	680	-47.199	41.359	17.720	1.00	40.76
ATOM	5263	O	VAL	680	-46.274	40.553	17.773	1.00	36.47
ATOM	5264	N	CYS	681	-48.413	41.007	17.313	1.00	43.41
ATOM	5265	CA	CYS	681	-48.725	39.617	16.997	1.00	43.84
ATOM	5266	C	CYS	681	-49.598	39.483	15.764	1.00	41.22
ATOM	5267	O	CYS	681	-50.531	40.253	15.582	1.00	43.45
ATOM	5268	CB	CYS	681	-49.441	38.984	18.183	1.00	44.32
ATOM	5269	SG	CYS	681	-48.516	39.156	19.735	1.00	54.75
ATOM	5270	N	ASP	682	-49.304	38.506	14.913	1.00	39.44
ATOM	5271	CA	ASP	682	-50.122	38.304	13.723	1.00	40.12
ATOM	5272	CB	ASP	682	-49.441	37.356	12.733	1.00	41.84
ATOM	5273	CG	ASP	682	-48.158	37.936	12.155	1.00	48.62
ATOM	5274	OD1	ASP	682	-47.890	37.697	10.955	1.00	52.11
ATOM	5275	OD2	ASP	682	-47.420	38.630	12.897	1.00	45.83
ATOM	5276	C	ASP	682	-51.474	37.744	14.137	1.00	38.84
ATOM	5277	O	ASP	682	-51.558	36.649	14.691	1.00	40.75
ATOM	5278	N	LEU	683	-52.515	38.550	13.936	1.00	43.65
ATOM	5279	CA	LEU	683	-53.892	38.174	14.262	1.00	38.17
ATOM	5280	CB	LEU	683	-54.642	39.360	14.875	1.00	31.94
ATOM	5281	CG	LEU	683	-54.528	39.532	16.385	1.00	34.00
ATOM	5282	CD1	LEU	683	-53.076	39.552	16.800	1.00	33.05
ATOM	5283	CD2	LEU	683	-55.230	40.799	16.815	1.00	36.71
ATOM	5284	C	LEU	683	-54.619	37.710	13.006	1.00	38.08
ATOM	5285	O	LEU	683	-55.844	37.815	12.904	1.00	32.16
ATOM	5286	N	GLY	684	-53.857	37.156	12.068	1.00	42.49
ATOM	5287	CA	GLY	684	-54.443	36.704	10.823	1.00	44.66
ATOM	5288	C	GLY	684	-54.576	37.913	9.919	1.00	40.58
ATOM	5289	O	GLY	684	-55.266	38.882	10.271	1.00	34.26
ATOM	5290	N	ASN	685	-53.891	37.868	8.775	1.00	38.48
ATOM	5291	CA	ASN	685	-53.920	38.967	7.827	1.00	33.04
ATOM	5292	CB	ASN	685	-53.222	38.597	6.526	1.00	33.72
ATOM	5293	CG	ASN	685	-52.852	39.807	5.714	1.00	37.85
ATOM	5294	OD1	ASN	685	-51.891	39.774	4.945	1.00	44.82
ATOM	5295	ND2	ASN	685	-53.593	40.897	5.891	1.00	25.48
ATOM	5296	C	ASN	685	-55.378	39.323	7.629	1.00	33.67

ATOM	5297	O	ASN	685	-55.829	40.314	8.200	1.00	40.60
ATOM	5298	N	PRO	686	-56.141	38.551	6.828	1.00	31.00
ATOM	5299	CD	PRO	686	-55.938	37.518	5.799	1.00	24.74
ATOM	5300	CA	PRO	686	-57.518	39.045	6.787	1.00	26.46
ATOM	5301	CB	PRO	686	-58.050	38.494	5.461	1.00	21.75
ATOM	5302	CG	PRO	686	-56.788	38.047	4.699	1.00	27.87
ATOM	5303	C	PRO	686	-58.181	38.360	7.979	1.00	24.87
ATOM	5304	O	PRO	686	-58.624	37.225	7.863	1.00	34.40
ATOM	5305	N	MET	687	-58.101	38.978	9.155	1.00	18.59
ATOM	5306	CA	MET	687	-58.712	38.415	10.352	1.00	16.50
ATOM	5307	CB	MET	687	-58.399	39.294	11.560	1.00	21.27
ATOM	5308	CG	MET	687	-59.039	38.830	12.872	1.00	21.89
ATOM	5309	SD	MET	687	-58.397	39.750	14.301	1.00	25.57
ATOM	5310	CE	MET	687	-59.721	39.576	15.496	1.00	7.35
ATOM	5311	C	MET	687	-60.213	38.373	10.107	1.00	17.28
ATOM	5312	O	MET	687	-60.929	39.319	10.427	1.00	12.22
ATOM	5313	N	LYS	688	-60.670	37.260	9.536	1.00	19.46
ATOM	5314	CA	LYS	688	-62.071	37.037	9.173	1.00	25.23
ATOM	5315	CB	LYS	688	-62.240	35.597	8.688	1.00	32.47
ATOM	5316	CG	LYS	688	-61.576	35.334	7.330	1.00	32.71
ATOM	5317	CD	LYS	688	-62.565	35.454	6.150	1.00	43.44
ATOM	5318	CE	LYS	688	-63.541	36.669	6.223	1.00	51.00
ATOM	5319	NZ	LYS	688	-62.957	38.048	6.079	1.00	41.65
ATOM	5320	C	LYS	688	-63.126	37.407	10.218	1.00	29.45
ATOM	5321	O	LYS	688	-62.896	37.267	11.419	1.00	32.85
ATOM	5322	N	ALA	689	-64.280	37.890	9.757	1.00	29.01
ATOM	5323	CA	ALA	689	-65.346	38.319	10.667	1.00	33.07
ATOM	5324	CB	ALA	689	-66.591	38.674	9.898	1.00	37.61
ATOM	5325	C	ALA	689	-65.660	37.288	11.731	1.00	37.75
ATOM	5326	O	ALA	689	-65.574	36.086	11.491	1.00	42.96
ATOM	5327	N	GLY	690	-65.984	37.758	12.925	1.00	41.94
ATOM	5328	CA	GLY	690	-66.286	36.836	14.001	1.00	48.53
ATOM	5329	C	GLY	690	-65.113	35.975	14.460	1.00	50.74
ATOM	5330	O	GLY	690	-65.319	35.043	15.229	1.00	57.58
ATOM	5331	N	THR	691	-63.899	36.233	13.981	1.00	46.95
ATOM	5332	CA	THR	691	-62.758	35.438	14.424	1.00	47.94
ATOM	5333	CB	THR	691	-61.498	35.651	13.533	1.00	49.31
ATOM	5334	OG1	THR	691	-61.692	35.027	12.258	1.00	51.24
ATOM	5335	CG2	THR	691	-60.262	35.050	14.180	1.00	38.64
ATOM	5336	C	THR	691	-62.454	35.849	15.857	1.00	51.67
ATOM	5337	O	THR	691	-62.017	36.969	16.103	1.00	55.09
ATOM	5338	N	GLN	692	-62.751	34.960	16.800	1.00	57.62
ATOM	5339	CA	GLN	692	-62.520	35.215	18.226	1.00	62.44
ATOM	5340	CB	GLN	692	-63.769	34.843	19.045	1.00	67.01
ATOM	5341	CG	GLN	692	-63.796	35.367	20.490	1.00	79.94
ATOM	5342	CD	GLN	692	-63.311	34.352	21.526	1.00	86.31
ATOM	5343	OE1	GLN	692	-62.239	34.509	22.117	1.00	85.54
ATOM	5344	NE2	GLN	692	-64.118	33.323	21.772	1.00	90.04
ATOM	5345	C	GLN	692	-61.317	34.402	18.687	1.00	57.20
ATOM	5346	O	GLN	692	-61.314	33.175	18.588	1.00	58.55
ATOM	5347	N	LEU	693	-60.298	35.091	19.192	1.00	55.39
ATOM	5348	CA	LEU	693	-59.078	34.435	19.650	1.00	56.05
ATOM	5349	CB	LEU	693	-57.890	34.933	18.830	1.00	53.08
ATOM	5350	CG	LEU	693	-57.374	34.013	17.734	1.00	55.45
ATOM	5351	CD1	LEU	693	-58.524	33.450	16.917	1.00	61.09
ATOM	5352	CD2	LEU	693	-56.399	34.780	16.863	1.00	55.90
ATOM	5353	C	LEU	693	-58.760	34.576	21.140	1.00	57.40

ATOM	5354	O	LEU	693	-59.332	35.410	21.843	1.00	57.97
ATOM	5355	N	LEU	694	-57.821	33.751	21.598	1.00	55.36
ATOM	5356	CA	LEU	694	-57.371	33.739	22.985	1.00	53.14
ATOM	5357	CB	LEU	694	-58.332	32.920	23.840	1.00	51.24
ATOM	5358	CG	LEU	694	-58.132	32.980	25.353	1.00	53.28
ATOM	5359	CD1	LEU	694	-58.412	34.378	25.871	1.00	55.86
ATOM	5360	CD2	LEU	694	-59.075	32.002	26.008	1.00	56.20
ATOM	5361	C	LEU	694	-55.969	33.125	23.032	1.00	54.34
ATOM	5362	O	LEU	694	-55.759	32.006	22.558	1.00	55.43
ATOM	5363	N	ALA	695	-55.009	33.878	23.568	1.00	54.09
ATOM	5364	CA	ALA	695	-53.621	33.427	23.677	1.00	51.05
ATOM	5365	CB	ALA	695	-52.839	33.824	22.441	1.00	45.84
ATOM	5366	C	ALA	695	-52.946	33.993	24.922	1.00	53.86
ATOM	5367	O	ALA	695	-53.433	34.949	25.534	1.00	52.57
ATOM	5368	N	GLY	696	-51.823	33.389	25.295	1.00	54.19
ATOM	5369	CA	GLY	696	-51.094	33.841	26.467	1.00	47.40
ATOM	5370	C	GLY	696	-49.770	34.473	26.100	1.00	41.73
ATOM	5371	O	GLY	696	-49.071	33.981	25.221	1.00	36.36
ATOM	5372	N	LEU	697	-49.433	35.566	26.778	1.00	38.59
ATOM	5373	CA	LEU	697	-48.192	36.279	26.528	1.00	41.01
ATOM	5374	CB	LEU	697	-48.489	37.715	26.108	1.00	44.27
ATOM	5375	CG	LEU	697	-49.267	37.885	24.803	1.00	45.61
ATOM	5376	CD1	LEU	697	-49.807	39.305	24.706	1.00	43.96
ATOM	5377	CD2	LEU	697	-48.369	37.553	23.621	1.00	45.32
ATOM	5378	C	LEU	697	-47.328	36.278	27.772	1.00	43.38
ATOM	5379	O	LEU	697	-47.660	36.921	28.769	1.00	41.50
ATOM	5380	N	ARG	698	-46.210	35.563	27.696	1.00	45.02
ATOM	5381	CA	ARG	698	-45.278	35.445	28.807	1.00	49.53
ATOM	5382	CB	ARG	698	-44.459	34.168	28.681	1.00	54.29
ATOM	5383	CG	ARG	698	-45.215	32.920	29.063	1.00	63.16
ATOM	5384	CD	ARG	698	-44.311	31.701	29.039	1.00	63.72
ATOM	5385	NE	ARG	698	-45.025	30.507	29.477	1.00	67.71
ATOM	5386	CZ	ARG	698	-45.391	30.273	30.732	1.00	72.66
ATOM	5387	NH1	ARG	698	-45.104	31.152	31.686	1.00	76.57
ATOM	5388	NH2	ARG	698	-46.063	29.165	31.030	1.00	76.78
ATOM	5389	C	ARG	698	-44.332	36.610	28.980	1.00	53.18
ATOM	5390	O	ARG	698	-43.581	36.959	28.073	1.00	56.88
ATOM	5391	N	PHE	699	-44.340	37.174	30.178	1.00	55.34
ATOM	5392	CA	PHE	699	-43.471	38.290	30.503	1.00	57.48
ATOM	5393	CB	PHE	699	-44.268	39.585	30.566	1.00	57.03
ATOM	5394	CG	PHE	699	-44.689	40.087	29.238	1.00	57.43
ATOM	5395	CD1	PHE	699	-43.876	40.959	28.529	1.00	56.82
ATOM	5396	CD2	PHE	699	-45.883	39.665	28.673	1.00	56.79
ATOM	5397	CE1	PHE	699	-44.243	41.405	27.275	1.00	58.86
ATOM	5398	CE2	PHE	699	-46.259	40.104	27.422	1.00	60.47
ATOM	5399	CZ	PHE	699	-45.435	40.975	26.717	1.00	60.10
ATOM	5400	C	PHE	699	-42.774	38.074	31.830	1.00	61.22
ATOM	5401	O	PHE	699	-43.094	37.143	32.579	1.00	61.63
ATOM	5402	N	SER	700	-41.804	38.942	32.102	1.00	62.61
ATOM	5403	CA	SER	700	-41.050	38.900	33.344	1.00	64.32
ATOM	5404	CB	SER	700	-39.909	37.874	33.283	1.00	64.31
ATOM	5405	OG	SER	700	-39.408	37.583	34.583	1.00	57.93
ATOM	5406	C	SER	700	-40.516	40.293	33.651	1.00	66.05
ATOM	5407	O	SER	700	-39.764	40.889	32.871	1.00	60.79
ATOM	5408	N	VAL	701	-40.987	40.823	34.771	1.00	68.78
ATOM	5409	CA	VAL	701	-40.598	42.134	35.243	1.00	74.15
ATOM	5410	CB	VAL	701	-41.818	42.933	35.733	1.00	78.64

ATOM	5411	CG1	VAL	701	-42.594	42.117	36.748	1.00	83.52
ATOM	5412	CG2	VAL	701	-41.379	44.269	36.338	1.00	82.43
ATOM	5413	C	VAL	701	-39.618	41.973	36.388	1.00	73.05
ATOM	5414	O	VAL	701	-39.761	41.100	37.245	1.00	69.73
ATOM	5415	N	HIS	702	-38.616	42.833	36.384	1.00	75.90
ATOM	5416	CA	HIS	702	-37.594	42.818	37.403	1.00	83.39
ATOM	5417	CB	HIS	702	-36.282	43.270	36.770	1.00	86.92
ATOM	5418	CG	HIS	702	-36.002	42.597	35.456	1.00	92.84
ATOM	5419	CD2	HIS	702	-35.195	42.947	34.426	1.00	95.68
ATOM	5420	ND1	HIS	702	-36.617	41.424	35.080	1.00	95.08
ATOM	5421	CE1	HIS	702	-36.204	41.076	33.872	1.00	95.53
ATOM	5422	NE2	HIS	702	-35.343	41.984	33.455	1.00	99.33
ATOM	5423	C	HIS	702	-38.065	43.760	38.501	1.00	84.50
ATOM	5424	O	HIS	702	-38.344	43.323	39.618	1.00	83.78
ATOM	5425	N	GLN	703	-38.227	45.030	38.133	1.00	85.41
ATOM	5426	CA	GLN	703	-38.693	46.103	39.017	1.00	87.08
ATOM	5427	CB	GLN	703	-38.142	45.958	40.446	1.00	87.74
ATOM	5428	CG	GLN	703	-36.626	46.155	40.564	1.00	85.83
ATOM	5429	CD	GLN	703	-36.173	46.445	41.987	1.00	85.09
ATOM	5430	OE1	GLN	703	-35.981	47.602	42.365	1.00	76.45
ATOM	5431	NE2	GLN	703	-35.992	45.392	42.779	1.00	88.63
ATOM	5432	C	GLN	703	-38.225	47.444	38.462	1.00	92.95
ATOM	5433	O	GLN	703	-37.567	47.507	37.418	1.00	93.30
ATOM	5434	N	GLN	704	-38.567	48.512	39.180	1.00	94.41
ATOM	5435	CA	GLN	704	-38.171	49.875	38.829	1.00	94.56
ATOM	5436	CB	GLN	704	-39.258	50.558	37.988	1.00	91.70
ATOM	5437	CG	GLN	704	-38.764	51.738	37.149	1.00	88.25
ATOM	5438	CD	GLN	704	-38.099	51.317	35.840	1.00	85.82
ATOM	5439	OE1	GLN	704	-37.507	50.238	35.733	1.00	79.89
ATOM	5440	NE2	GLN	704	-38.205	52.174	34.832	1.00	86.51
ATOM	5441	C	GLN	704	-37.975	50.610	40.162	1.00	97.56
ATOM	5442	O	GLN	704	-38.114	51.837	40.252	1.00	97.29
ATOM	5443	N	SER	705	-37.633	49.823	41.185	1.00	97.14
ATOM	5444	CA	SER	705	-37.405	50.288	42.555	1.00	95.11
ATOM	5445	CB	SER	705	-36.489	51.517	42.573	1.00	96.43
ATOM	5446	OG	SER	705	-35.225	51.201	42.008	1.00	97.13
ATOM	5447	C	SER	705	-38.730	50.572	43.261	1.00	95.78
ATOM	5448	O	SER	705	-39.701	49.820	43.092	1.00	89.53
ATOM	5449	N	GLU	706	-38.757	51.616	44.084	1.00	90.95
ATOM	5450	CA	GLU	706	-39.977	51.985	44.786	1.00	90.19
ATOM	5451	CB	GLU	706	-39.741	53.206	45.677	1.00	87.25
ATOM	5452	CG	GLU	706	-40.989	53.732	46.378	1.00	83.98
ATOM	5453	CD	GLU	706	-41.660	54.873	45.632	1.00	84.07
ATOM	5454	OE1	GLU	706	-41.068	55.972	45.570	1.00	81.40
ATOM	5455	OE2	GLU	706	-42.782	54.681	45.115	1.00	82.31
ATOM	5456	C	GLU	706	-41.040	52.287	43.739	1.00	90.64
ATOM	5457	O	GLU	706	-42.205	51.929	43.920	1.00	90.76
ATOM	5458	N	MET	707	-40.601	52.899	42.632	1.00	88.35
ATOM	5459	CA	MET	707	-41.439	53.279	41.486	1.00	88.04
ATOM	5460	CB	MET	707	-40.923	52.608	40.206	1.00	83.57
ATOM	5461	CG	MET	707	-41.820	52.730	38.970	1.00	84.75
ATOM	5462	SD	MET	707	-42.369	54.403	38.552	1.00	92.91
ATOM	5463	CE	MET	707	-43.998	54.054	37.833	1.00	88.33
ATOM	5464	C	MET	707	-42.939	53.050	41.647	1.00	87.80
ATOM	5465	O	MET	707	-43.495	52.056	41.165	1.00	89.17
ATOM	5466	N	ASP	708	-43.569	53.964	42.377	1.00	85.42
ATOM	5467	CA	ASP	708	-45.003	53.924	42.630	1.00	84.56

ATOM	5468	CB	ASP	708	-45.764	54.425	41.392	1.00	89.29
ATOM	5469	CG	ASP	708	-45.286	55.810	40.927	1.00	92.98
ATOM	5470	OD1	ASP	708	-44.852	56.622	41.777	1.00	92.53
ATOM	5471	OD2	ASP	708	-45.336	56.084	39.706	1.00	93.74
ATOM	5472	C	ASP	708	-45.490	52.547	43.096	1.00	78.03
ATOM	5473	O	ASP	708	-44.906	51.965	44.010	1.00	78.62
ATOM	5474	N	THR	709	-46.507	51.996	42.443	1.00	71.52
ATOM	5475	CA	THR	709	-47.038	50.706	42.864	1.00	70.13
ATOM	5476	CB	THR	709	-48.048	50.905	44.020	1.00	72.98
ATOM	5477	OG1	THR	709	-48.747	49.680	44.283	1.00	76.92
ATOM	5478	CG2	THR	709	-49.044	52.002	43.675	1.00	76.21
ATOM	5479	C	THR	709	-47.700	49.885	41.766	1.00	66.69
ATOM	5480	O	THR	709	-48.342	48.869	42.043	1.00	67.25
ATOM	5481	N	SER	710	-47.524	50.290	40.516	1.00	66.68
ATOM	5482	CA	SER	710	-48.148	49.552	39.430	1.00	63.30
ATOM	5483	CB	SER	710	-49.552	50.100	39.156	1.00	65.05
ATOM	5484	OG	SER	710	-50.359	50.076	40.322	1.00	68.18
ATOM	5485	C	SER	710	-47.363	49.559	38.136	1.00	60.58
ATOM	5486	O	SER	710	-46.829	50.588	37.716	1.00	63.97
ATOM	5487	N	VAL	711	-47.262	48.382	37.538	1.00	58.97
ATOM	5488	CA	VAL	711	-46.603	48.224	36.251	1.00	58.81
ATOM	5489	CB	VAL	711	-45.663	47.007	36.234	1.00	59.29
ATOM	5490	CG1	VAL	711	-44.397	47.318	37.007	1.00	59.10
ATOM	5491	CG2	VAL	711	-46.364	45.793	36.827	1.00	60.08
ATOM	5492	C	VAL	711	-47.768	48.002	35.286	1.00	58.20
ATOM	5493	O	VAL	711	-48.639	47.162	35.552	1.00	58.96
ATOM	5494	N	LYS	712	-47.810	48.757	34.190	1.00	52.86
ATOM	5495	CA	LYS	712	-48.925	48.617	33.264	1.00	50.42
ATOM	5496	CB	LYS	712	-49.958	49.732	33.498	1.00	53.22
ATOM	5497	CG	LYS	712	-49.504	51.145	33.156	1.00	59.01
ATOM	5498	CD	LYS	712	-49.948	51.559	31.754	1.00	68.09
ATOM	5499	CE	LYS	712	-49.636	53.029	31.481	1.00	73.40
ATOM	5500	NZ	LYS	712	-50.097	53.473	30.132	1.00	80.03
ATOM	5501	C	LYS	712	-48.660	48.446	31.774	1.00	49.17
ATOM	5502	O	LYS	712	-47.860	49.168	31.159	1.00	42.70
ATOM	5503	N	PHE	713	-49.392	47.482	31.214	1.00	48.48
ATOM	5504	CA	PHE	713	-49.350	47.136	29.801	1.00	48.13
ATOM	5505	CB	PHE	713	-49.522	45.627	29.604	1.00	43.16
ATOM	5506	CG	PHE	713	-48.457	44.793	30.260	1.00	45.38
ATOM	5507	CD1	PHE	713	-48.552	44.449	31.605	1.00	39.55
ATOM	5508	CD2	PHE	713	-47.366	44.329	29.522	1.00	45.80
ATOM	5509	CE1	PHE	713	-47.578	43.661	32.203	1.00	41.40
ATOM	5510	CE2	PHE	713	-46.383	43.536	30.112	1.00	40.17
ATOM	5511	CZ	PHE	713	-46.489	43.202	31.452	1.00	41.27
ATOM	5512	C	PHE	713	-50.506	47.841	29.096	1.00	50.41
ATOM	5513	O	PHE	713	-51.542	48.134	29.703	1.00	47.74
ATOM	5514	N	ASP	714	-50.318	48.115	27.811	1.00	51.48
ATOM	5515	CA	ASP	714	-51.344	48.758	27.006	1.00	47.96
ATOM	5516	CB	ASP	714	-50.902	50.159	26.586	1.00	51.39
ATOM	5517	CG	ASP	714	-50.813	51.114	27.760	1.00	57.37
ATOM	5518	OD1	ASP	714	-49.690	51.576	28.063	1.00	61.44
ATOM	5519	OD2	ASP	714	-51.867	51.394	28.375	1.00	51.87
ATOM	5520	C	ASP	714	-51.611	47.883	25.787	1.00	47.72
ATOM	5521	O	ASP	714	-50.709	47.612	24.985	1.00	46.95
ATOM	5522	N	LEU	715	-52.851	47.416	25.676	1.00	45.27
ATOM	5523	CA	LEU	715	-53.260	46.549	24.577	1.00	43.74
ATOM	5524	CB	LEU	715	-53.867	45.247	25.134	1.00	43.98

ATOM	5525	CG	LEU	715	-53.107	44.397	26.169	1.00	44.12
ATOM	5526	CD1	LEU	715	-53.074	45.103	27.511	1.00	47.85
ATOM	5527	CD2	LEU	715	-53.785	43.046	26.347	1.00	45.96
ATOM	5528	C	LEU	715	-54.247	47.215	23.597	1.00	39.18
ATOM	5529	O	LEU	715	-55.172	47.922	24.002	1.00	37.28
ATOM	5530	N	GLN	716	-54.026	46.990	22.305	1.00	36.08
ATOM	5531	CA	GLN	716	-54.886	47.526	21.264	1.00	33.35
ATOM	5532	CB	GLN	716	-54.615	49.007	21.037	1.00	36.59
ATOM	5533	CG	GLN	716	-55.645	49.651	20.123	1.00	42.52
ATOM	5534	CD	GLN	716	-55.076	50.777	19.295	1.00	41.21
ATOM	5535	OE1	GLN	716	-54.104	50.585	18.557	1.00	40.19
ATOM	5536	NE2	GLN	716	-55.693	51.953	19.386	1.00	31.87
ATOM	5537	C	GLN	716	-54.642	46.787	19.959	1.00	33.96
ATOM	5538	O	GLN	716	-53.503	46.417	19.652	1.00	36.94
ATOM	5539	N	ILE	717	-55.710	46.574	19.194	1.00	27.00
ATOM	5540	CA	ILE	717	-55.600	45.890	17.910	1.00	20.93
ATOM	5541	CB	ILE	717	-56.712	44.851	17.745	1.00	12.31
ATOM	5542	CG2	ILE	717	-56.470	44.044	16.486	1.00	2.64
ATOM	5543	CG1	ILE	717	-56.702	43.902	18.946	1.00	7.20
ATOM	5544	CD1	ILE	717	-58.009	43.257	19.229	1.00	2.00
ATOM	5545	C	ILE	717	-55.655	46.926	16.788	1.00	24.51
ATOM	5546	O	ILE	717	-56.316	47.948	16.940	1.00	27.36
ATOM	5547	N	GLN	718	-54.921	46.686	15.700	1.00	26.89
ATOM	5548	CA	GLN	718	-54.865	47.608	14.552	1.00	36.56
ATOM	5549	CB	GLN	718	-53.516	48.325	14.482	1.00	43.20
ATOM	5550	CG	GLN	718	-53.145	49.185	15.668	1.00	53.46
ATOM	5551	CD	GLN	718	-51.669	49.558	15.657	1.00	58.78
ATOM	5552	OE1	GLN	718	-51.202	50.293	16.531	1.00	61.05
ATOM	5553	NE2	GLN	718	-50.921	49.035	14.675	1.00	54.47
ATOM	5554	C	GLN	718	-55.008	46.863	13.238	1.00	37.05
ATOM	5555	O	GLN	718	-54.705	45.668	13.162	1.00	44.14
ATOM	5556	N	SER	719	-55.339	47.605	12.178	1.00	34.44
ATOM	5557	CA	SER	719	-55.501	47.019	10.845	1.00	31.51
ATOM	5558	CB	SER	719	-56.914	46.486	10.690	1.00	27.99
ATOM	5559	OG	SER	719	-57.828	47.555	10.806	1.00	33.55
ATOM	5560	C	SER	719	-55.239	48.014	9.722	1.00	27.04
ATOM	5561	O	SER	719	-55.122	49.213	9.959	1.00	31.25
ATOM	5562	N	SER	720	-55.164	47.502	8.497	1.00	19.16
ATOM	5563	CA	SER	720	-54.948	48.331	7.317	1.00	18.59
ATOM	5564	CB	SER	720	-54.249	47.525	6.231	1.00	21.10
ATOM	5565	OG	SER	720	-52.975	47.114	6.665	1.00	36.69
ATOM	5566	C	SER	720	-56.274	48.856	6.770	1.00	21.11
ATOM	5567	O	SER	720	-56.335	49.358	5.650	1.00	18.23
ATOM	5568	N	ASN	721	-57.332	48.732	7.561	1.00	30.16
ATOM	5569	CA	ASN	721	-58.650	49.189	7.149	1.00	43.20
ATOM	5570	CB	ASN	721	-59.741	48.487	7.958	1.00	42.80
ATOM	5571	CG	ASN	721	-59.932	47.047	7.537	1.00	43.27
ATOM	5572	OD1	ASN	721	-61.021	46.483	7.663	1.00	38.81
ATOM	5573	ND2	ASN	721	-58.869	46.441	7.030	1.00	42.35
ATOM	5574	C	ASN	721	-58.824	50.694	7.239	1.00	47.38
ATOM	5575	O	ASN	721	-58.583	51.294	8.287	1.00	52.20
ATOM	5576	N	LEU	722	-59.265	51.289	6.132	1.00	47.56
ATOM	5577	CA	LEU	722	-59.488	52.727	6.052	1.00	44.79
ATOM	5578	CB	LEU	722	-59.909	53.115	4.626	1.00	46.24
ATOM	5579	CG	LEU	722	-59.027	52.539	3.500	1.00	51.30
ATOM	5580	CD1	LEU	722	-59.547	52.942	2.133	1.00	53.30
ATOM	5581	CD2	LEU	722	-57.591	52.985	3.649	1.00	47.37

ATOM	5582	C	LEU	722	-60.536	53.142	7.086	1.00	42.58
ATOM	5583	O	LEU	722	-60.431	54.206	7.693	1.00	37.65
ATOM	5584	N	PHE	723	-61.516	52.271	7.324	1.00	39.43
ATOM	5585	CA	PHE	723	-62.553	52.550	8.310	1.00	40.83
ATOM	5586	CB	PHE	723	-63.943	52.462	7.687	1.00	47.94
ATOM	5587	CG	PHE	723	-64.313	53.661	6.868	1.00	53.49
ATOM	5588	CD1	PHE	723	-65.193	54.616	7.372	1.00	56.19
ATOM	5589	CD2	PHE	723	-63.768	53.848	5.597	1.00	52.63
ATOM	5590	CE1	PHE	723	-65.526	55.749	6.622	1.00	58.28
ATOM	5591	CE2	PHE	723	-64.090	54.969	4.840	1.00	52.46
ATOM	5592	CZ	PHE	723	-64.974	55.924	5.352	1.00	57.16
ATOM	5593	C	PHE	723	-62.452	51.616	9.502	1.00	42.07
ATOM	5594	O	PHE	723	-62.025	50.472	9.368	1.00	40.53
ATOM	5595	N	ASP	724	-62.816	52.133	10.676	1.00	48.40
ATOM	5596	CA	ASP	724	-62.780	51.389	11.940	1.00	50.95
ATOM	5597	CB	ASP	724	-64.041	50.554	12.075	1.00	49.25
ATOM	5598	CG	ASP	724	-65.284	51.401	11.992	1.00	49.24
ATOM	5599	OD1	ASP	724	-65.586	51.890	10.882	1.00	53.90
ATOM	5600	OD2	ASP	724	-65.935	51.609	13.037	1.00	53.12
ATOM	5601	C	ASP	724	-61.509	50.553	12.121	1.00	50.75
ATOM	5602	O	ASP	724	-61.505	49.489	12.756	1.00	51.42
ATOM	5603	N	LYS	725	-60.428	51.137	11.607	1.00	47.04
ATOM	5604	CA	LYS	725	-59.070	50.616	11.595	1.00	40.31
ATOM	5605	CB	LYS	725	-58.137	51.764	11.192	1.00	35.07
ATOM	5606	CG	LYS	725	-56.681	51.406	11.037	1.00	28.33
ATOM	5607	CD	LYS	725	-55.870	52.651	10.750	1.00	33.31
ATOM	5608	CE	LYS	725	-56.197	53.251	9.389	1.00	33.74
ATOM	5609	NZ	LYS	725	-55.341	52.675	8.300	1.00	28.67
ATOM	5610	C	LYS	725	-58.560	49.964	12.886	1.00	39.95
ATOM	5611	O	LYS	725	-57.815	48.979	12.839	1.00	39.01
ATOM	5612	N	VAL	726	-58.944	50.505	14.036	1.00	35.21
ATOM	5613	CA	VAL	726	-58.459	49.949	15.291	1.00	31.37
ATOM	5614	CB	VAL	726	-57.477	50.912	16.004	1.00	26.09
ATOM	5615	CG1	VAL	726	-56.402	51.399	15.030	1.00	18.52
ATOM	5616	CG2	VAL	726	-58.231	52.065	16.640	1.00	27.43
ATOM	5617	C	VAL	726	-59.519	49.530	16.289	1.00	31.95
ATOM	5618	O	VAL	726	-60.720	49.576	16.013	1.00	37.39
ATOM	5619	N	SER	727	-59.033	49.086	17.443	1.00	33.83
ATOM	5620	CA	SER	727	-59.859	48.638	18.546	1.00	38.91
ATOM	5621	CB	SER	727	-59.409	47.249	19.003	1.00	38.38
ATOM	5622	OG	SER	727	-58.123	47.289	19.601	1.00	34.87
ATOM	5623	C	SER	727	-59.614	49.615	19.672	1.00	42.19
ATOM	5624	O	SER	727	-58.702	50.447	19.599	1.00	45.64
ATOM	5625	N	PRO	728	-60.424	49.539	20.736	1.00	47.80
ATOM	5626	CD	PRO	728	-61.517	48.617	21.100	1.00	50.36
ATOM	5627	CA	PRO	728	-60.157	50.489	21.809	1.00	51.74
ATOM	5628	CB	PRO	728	-61.340	50.257	22.754	1.00	51.22
ATOM	5629	CG	PRO	728	-61.606	48.785	22.603	1.00	46.49
ATOM	5630	C	PRO	728	-58.829	50.068	22.440	1.00	52.08
ATOM	5631	O	PRO	728	-58.395	48.919	22.278	1.00	48.40
ATOM	5632	N	VAL	729	-58.145	51.013	23.075	1.00	53.76
ATOM	5633	CA	VAL	729	-56.884	50.702	23.733	1.00	53.59
ATOM	5634	CB	VAL	729	-55.929	51.911	23.765	1.00	52.62
ATOM	5635	CG1	VAL	729	-54.557	51.494	24.307	1.00	45.00
ATOM	5636	CG2	VAL	729	-55.807	52.514	22.378	1.00	55.00
ATOM	5637	C	VAL	729	-57.188	50.293	25.166	1.00	53.98
ATOM	5638	O	VAL	729	-57.759	51.067	25.932	1.00	56.39

ATOM	5639	N	VAL	730	-56.871	49.051	25.500	1.00	50.30
ATOM	5640	CA	VAL	730	-57.093	48.560	26.845	1.00	58.08
ATOM	5641	CB	VAL	730	-57.508	47.080	26.836	1.00	53.77
ATOM	5642	CG1	VAL	730	-57.792	46.595	28.252	1.00	48.86
ATOM	5643	CG2	VAL	730	-58.731	46.898	25.958	1.00	55.59
ATOM	5644	C	VAL	730	-55.794	48.738	27.628	1.00	65.22
ATOM	5645	O	VAL	730	-54.707	48.745	27.049	1.00	68.42
ATOM	5646	N	SER	731	-55.915	48.942	28.934	1.00	70.21
ATOM	5647	CA	SER	731	-54.754	49.119	29.795	1.00	70.73
ATOM	5648	CB	SER	731	-54.702	50.551	30.327	1.00	68.89
ATOM	5649	OG	SER	731	-53.556	50.745	31.135	1.00	69.86
ATOM	5650	C	SER	731	-54.844	48.138	30.957	1.00	71.18
ATOM	5651	O	SER	731	-55.838	48.132	31.691	1.00	72.77
ATOM	5652	N	HIS	732	-53.830	47.281	31.090	1.00	69.91
ATOM	5653	CA	HIS	732	-53.786	46.301	32.174	1.00	65.48
ATOM	5654	CB	HIS	732	-53.768	44.870	31.641	1.00	66.38
ATOM	5655	CG	HIS	732	-53.754	43.835	32.722	1.00	66.96
ATOM	5656	CD2	HIS	732	-52.919	42.794	32.952	1.00	66.99
ATOM	5657	ND1	HIS	732	-54.668	43.825	33.754	1.00	70.37
ATOM	5658	CE1	HIS	732	-54.397	42.827	34.572	1.00	74.14
ATOM	5659	NE2	HIS	732	-53.339	42.184	34.108	1.00	71.95
ATOM	5660	C	HIS	732	-52.581	46.511	33.081	1.00	60.35
ATOM	5661	O	HIS	732	-51.443	46.560	32.613	1.00	57.79
ATOM	5662	N	LYS	733	-52.839	46.597	34.383	1.00	57.29
ATOM	5663	CA	LYS	733	-51.780	46.807	35.357	1.00	55.63
ATOM	5664	CB	LYS	733	-51.941	48.173	36.051	1.00	53.17
ATOM	5665	CG	LYS	733	-53.059	48.252	37.098	1.00	51.76
ATOM	5666	CD	LYS	733	-52.877	49.473	38.007	1.00	49.89
ATOM	5667	CE	LYS	733	-54.031	49.665	39.014	1.00	51.28
ATOM	5668	NZ	LYS	733	-54.095	48.659	40.116	1.00	44.24
ATOM	5669	C	LYS	733	-51.702	45.714	36.419	1.00	54.74
ATOM	5670	O	LYS	733	-52.639	44.929	36.621	1.00	48.86
ATOM	5671	N	VAL	734	-50.556	45.663	37.083	1.00	51.05
ATOM	5672	CA	VAL	734	-50.351	44.712	38.152	1.00	53.04
ATOM	5673	CB	VAL	734	-49.498	43.523	37.714	1.00	52.93
ATOM	5674	CG1	VAL	734	-49.365	42.542	38.862	1.00	50.27
ATOM	5675	CG2	VAL	734	-50.126	42.838	36.510	1.00	55.71
ATOM	5676	C	VAL	734	-49.688	45.434	39.317	1.00	54.70
ATOM	5677	O	VAL	734	-48.904	46.373	39.131	1.00	48.95
ATOM	5678	N	ASP	735	-50.053	45.012	40.521	1.00	54.94
ATOM	5679	CA	ASP	735	-49.524	45.598	41.735	1.00	59.87
ATOM	5680	CB	ASP	735	-50.506	45.404	42.892	1.00	67.23
ATOM	5681	CG	ASP	735	-51.549	46.493	42.954	1.00	76.41
ATOM	5682	OD1	ASP	735	-52.584	46.373	42.263	1.00	77.86
ATOM	5683	OD2	ASP	735	-51.326	47.477	43.695	1.00	81.92
ATOM	5684	C	ASP	735	-48.169	45.069	42.158	1.00	61.15
ATOM	5685	O	ASP	735	-47.927	43.857	42.177	1.00	61.96
ATOM	5686	N	LEU	736	-47.270	45.998	42.456	1.00	53.70
ATOM	5687	CA	LEU	736	-45.957	45.640	42.949	1.00	45.58
ATOM	5688	CB	LEU	736	-45.024	46.842	42.914	1.00	40.49
ATOM	5689	CG	LEU	736	-44.174	46.925	41.650	1.00	42.61
ATOM	5690	CD1	LEU	736	-45.052	46.779	40.423	1.00	49.25
ATOM	5691	CD2	LEU	736	-43.401	48.233	41.621	1.00	45.99
ATOM	5692	C	LEU	736	-46.250	45.259	44.384	1.00	49.31
ATOM	5693	O	LEU	736	-47.126	45.856	45.019	1.00	50.79
ATOM	5694	N	ALA	737	-45.575	44.230	44.878	1.00	48.30
ATOM	5695	CA	ALA	737	-45.795	43.788	46.245	1.00	43.77

ATOM	5696	CB	ALA	737	-46.494	42.432	46.250	1.00	45.20
ATOM	5697	C	ALA	737	-44.491	43.732	47.027	1.00	39.07
ATOM	5698	O	ALA	737	-43.408	43.795	46.447	1.00	36.62
ATOM	5699	N	VAL	738	-44.612	43.656	48.349	1.00	36.37
ATOM	5700	CA	VAL	738	-43.457	43.583	49.234	1.00	30.17
ATOM	5701	CB	VAL	738	-43.523	44.656	50.329	1.00	34.26
ATOM	5702	CG1	VAL	738	-42.226	44.661	51.130	1.00	31.37
ATOM	5703	CG2	VAL	738	-43.810	46.026	49.717	1.00	33.96
ATOM	5704	C	VAL	738	-43.361	42.221	49.919	1.00	29.95
ATOM	5705	O	VAL	738	-44.311	41.768	50.558	1.00	29.07
ATOM	5706	N	LEU	739	-42.215	41.567	49.773	1.00	31.27
ATOM	5707	CA	LEU	739	-41.984	40.268	50.397	1.00	28.87
ATOM	5708	CB	LEU	739	-42.466	39.118	49.504	1.00	26.07
ATOM	5709	CG	LEU	739	-42.428	37.742	50.182	1.00	23.26
ATOM	5710	CD1	LEU	739	-43.397	37.701	51.327	1.00	19.46
ATOM	5711	CD2	LEU	739	-42.771	36.657	49.203	1.00	28.12
ATOM	5712	C	LEU	739	-40.505	40.094	50.744	1.00	27.24
ATOM	5713	O	LEU	739	-39.637	40.071	49.867	1.00	21.64
ATOM	5714	N	ALA	740	-40.236	40.010	52.042	1.00	24.52
ATOM	5715	CA	ALA	740	-38.888	39.845	52.549	1.00	24.96
ATOM	5716	CB	ALA	740	-38.361	41.168	53.090	1.00	19.83
ATOM	5717	C	ALA	740	-38.896	38.787	53.645	1.00	29.80
ATOM	5718	O	ALA	740	-39.398	39.022	54.748	1.00	31.49
ATOM	5719	N	ALA	741	-38.392	37.601	53.308	1.00	32.77
ATOM	5720	CA	ALA	741	-38.304	36.493	54.252	1.00	29.36
ATOM	5721	CB	ALA	741	-38.274	35.174	53.513	1.00	27.80
ATOM	5722	C	ALA	741	-37.020	36.677	55.037	1.00	28.66
ATOM	5723	O	ALA	741	-35.963	36.188	54.641	1.00	29.51
ATOM	5724	N	VAL	742	-37.101	37.477	56.096	1.00	27.34
ATOM	5725	CA	VAL	742	-35.953	37.743	56.951	1.00	23.44
ATOM	5726	CB	VAL	742	-36.065	39.161	57.595	1.00	18.83
ATOM	5727	CG1	VAL	742	-34.791	39.530	58.335	1.00	9.10
ATOM	5728	CG2	VAL	742	-36.351	40.197	56.522	1.00	13.58
ATOM	5729	C	VAL	742	-35.994	36.635	58.011	1.00	24.77
ATOM	5730	O	VAL	742	-37.076	36.128	58.339	1.00	29.04
ATOM	5731	N	GLU	743	-34.824	36.224	58.501	1.00	20.96
ATOM	5732	CA	GLU	743	-34.736	35.162	59.509	1.00	19.27
ATOM	5733	CB	GLU	743	-34.637	33.797	58.831	1.00	23.66
ATOM	5734	CG	GLU	743	-33.447	33.678	57.907	1.00	27.57
ATOM	5735	CD	GLU	743	-33.101	32.254	57.593	1.00	32.81
ATOM	5736	OE1	GLU	743	-33.318	31.387	58.466	1.00	40.47
ATOM	5737	OE2	GLU	743	-32.591	32.000	56.482	1.00	38.62
ATOM	5738	C	GLU	743	-33.539	35.347	60.436	1.00	20.28
ATOM	5739	O	GLU	743	-32.567	36.024	60.086	1.00	17.07
ATOM	5740	N	ILE	744	-33.570	34.656	61.573	1.00	16.78
ATOM	5741	CA	ILE	744	-32.506	34.790	62.561	1.00	17.33
ATOM	5742	CB	ILE	744	-32.998	35.679	63.728	1.00	8.92
ATOM	5743	CG2	ILE	744	-34.280	35.114	64.334	1.00	2.05
ATOM	5744	CG1	ILE	744	-31.895	35.883	64.757	1.00	2.00
ATOM	5745	CD1	ILE	744	-32.291	36.822	65.853	1.00	10.23
ATOM	5746	C	ILE	744	-31.879	33.493	63.096	1.00	26.95
ATOM	5747	O	ILE	744	-32.414	32.846	64.002	1.00	32.74
ATOM	5748	N	ARG	745	-30.724	33.136	62.540	1.00	29.58
ATOM	5749	CA	ARG	745	-29.990	31.943	62.955	1.00	24.11
ATOM	5750	CB	ARG	745	-29.197	31.377	61.779	1.00	33.45
ATOM	5751	CG	ARG	745	-30.025	31.049	60.558	1.00	47.90
ATOM	5752	CD	ARG	745	-29.671	29.660	60.051	1.00	63.91

ATOM	5753	NE	ARG	745	-29.994	28.637	61.047	1.00	73.12
ATOM	5754	CZ	ARG	745	-31.089	27.878	61.025	1.00	74.62
ATOM	5755	NH1	ARG	745	-31.982	28.006	60.046	1.00	70.46
ATOM	5756	NH2	ARG	745	-31.315	27.022	62.013	1.00	76.68
ATOM	5757	C	ARG	745	-29.018	32.300	64.085	1.00	25.26
ATOM	5758	O	ARG	745	-28.440	33.390	64.099	1.00	24.49
ATOM	5759	N	GLY	746	-28.831	31.373	65.021	1.00	24.72
ATOM	5760	CA	GLY	746	-27.923	31.601	66.138	1.00	20.22
ATOM	5761	C	GLY	746	-27.060	30.379	66.412	1.00	17.33
ATOM	5762	O	GLY	746	-27.432	29.270	66.024	1.00	15.68
ATOM	5763	N	VAL	747	-25.900	30.578	67.046	1.00	12.10
ATOM	5764	CA	VAL	747	-24.999	29.466	67.362	1.00	5.26
ATOM	5765	CB	VAL	747	-24.267	28.943	66.118	1.00	6.39
ATOM	5766	CG1	VAL	747	-23.039	29.783	65.817	1.00	9.65
ATOM	5767	CG2	VAL	747	-23.866	27.506	66.334	1.00	17.31
ATOM	5768	C	VAL	747	-23.947	29.737	68.431	1.00	8.16
ATOM	5769	O	VAL	747	-23.370	30.816	68.508	1.00	6.81
ATOM	5770	N	SER	748	-23.705	28.728	69.258	1.00	12.59
ATOM	5771	CA	SER	748	-22.704	28.818	70.307	1.00	16.86
ATOM	5772	CB	SER	748	-23.216	28.169	71.587	1.00	13.60
ATOM	5773	OG	SER	748	-22.176	28.074	72.538	1.00	14.55
ATOM	5774	C	SER	748	-21.468	28.069	69.816	1.00	24.73
ATOM	5775	O	SER	748	-21.585	26.953	69.299	1.00	24.24
ATOM	5776	N	SER	749	-20.302	28.707	69.916	1.00	26.89
ATOM	5777	CA	SER	749	-19.062	28.084	69.494	1.00	25.04
ATOM	5778	CB	SER	749	-17.892	29.021	69.662	1.00	21.32
ATOM	5779	OG	SER	749	-16.702	28.270	69.672	1.00	37.40
ATOM	5780	C	SER	749	-18.931	26.847	70.356	1.00	34.11
ATOM	5781	O	SER	749	-19.231	25.759	69.871	1.00	53.18
ATOM	5782	N	PRO	750	-18.436	26.952	71.610	1.00	32.58
ATOM	5783	CD	PRO	750	-17.709	27.941	72.423	1.00	28.13
ATOM	5784	CA	PRO	750	-18.424	25.635	72.270	1.00	31.22
ATOM	5785	CB	PRO	750	-17.497	25.849	73.473	1.00	22.57
ATOM	5786	CG	PRO	750	-16.688	27.064	73.093	1.00	32.60
ATOM	5787	C	PRO	750	-19.882	25.428	72.713	1.00	31.39
ATOM	5788	O	PRO	750	-20.363	26.107	73.609	1.00	36.27
ATOM	5789	N	ASP	751	-20.615	24.568	72.021	1.00	28.31
ATOM	5790	CA	ASP	751	-22.010	24.343	72.368	1.00	30.99
ATOM	5791	CB	ASP	751	-22.755	23.699	71.202	1.00	42.20
ATOM	5792	CG	ASP	751	-22.268	22.305	70.902	1.00	47.30
ATOM	5793	OD1	ASP	751	-22.942	21.343	71.332	1.00	52.88
ATOM	5794	OD2	ASP	751	-21.207	22.178	70.247	1.00	51.45
ATOM	5795	C	ASP	751	-22.156	23.483	73.607	1.00	28.76
ATOM	5796	O	ASP	751	-23.265	23.129	74.002	1.00	35.31
ATOM	5797	N	HIS	752	-21.031	23.171	74.231	1.00	28.97
ATOM	5798	CA	HIS	752	-21.026	22.340	75.420	1.00	28.38
ATOM	5799	CB	HIS	752	-21.106	20.875	74.991	1.00	38.68
ATOM	5800	CG	HIS	752	-21.810	19.998	75.974	1.00	47.08
ATOM	5801	CD2	HIS	752	-21.637	19.830	77.306	1.00	47.78
ATOM	5802	ND1	HIS	752	-22.840	19.156	75.608	1.00	53.33
ATOM	5803	CE1	HIS	752	-23.273	18.509	76.677	1.00	57.23
ATOM	5804	NE2	HIS	752	-22.561	18.899	77.720	1.00	56.45
ATOM	5805	C	HIS	752	-19.727	22.584	76.181	1.00	21.59
ATOM	5806	O	HIS	752	-18.704	22.902	75.585	1.00	23.00
ATOM	5807	N	ILE	753	-19.783	22.494	77.500	1.00	11.45
ATOM	5808	CA	ILE	753	-18.596	22.668	78.325	1.00	17.68
ATOM	5809	CB	ILE	753	-18.570	24.038	79.048	1.00	17.75

ATOM	5810	CG2	ILE	753	-17.527	24.041	80.168	1.00	12.01
ATOM	5811	CG1	ILE	753	-18.242	25.161	78.065	1.00	21.45
ATOM	5812	CD1	ILE	753	-16.763	25.301	77.747	1.00	27.79
ATOM	5813	C	ILE	753	-18.633	21.553	79.356	1.00	26.00
ATOM	5814	O	ILE	753	-19.682	21.271	79.936	1.00	26.04
ATOM	5815	N	PHE	754	-17.510	20.859	79.508	1.00	32.66
ATOM	5816	CA	PHE	754	-17.412	19.777	80.477	1.00	33.69
ATOM	5817	CB	PHE	754	-16.749	18.550	79.858	1.00	24.72
ATOM	5818	CG	PHE	754	-17.588	17.875	78.801	1.00	15.82
ATOM	5819	CD1	PHE	754	-17.250	17.967	77.458	1.00	19.52
ATOM	5820	CD2	PHE	754	-18.725	17.165	79.149	1.00	13.24
ATOM	5821	CE1	PHE	754	-18.029	17.354	76.479	1.00	21.87
ATOM	5822	CE2	PHE	754	-19.512	16.545	78.177	1.00	9.13
ATOM	5823	CZ	PHE	754	-19.165	16.645	76.841	1.00	15.02
ATOM	5824	C	PHE	754	-16.649	20.298	81.684	1.00	38.50
ATOM	5825	O	PHE	754	-15.421	20.468	81.650	1.00	34.16
ATOM	5826	N	LEU	755	-17.416	20.537	82.750	1.00	48.14
ATOM	5827	CA	LEU	755	-16.931	21.090	84.009	1.00	51.14
ATOM	5828	CB	LEU	755	-18.081	21.367	84.968	1.00	49.96
ATOM	5829	CG	LEU	755	-18.402	22.861	85.068	1.00	53.02
ATOM	5830	CD1	LEU	755	-17.157	23.640	85.477	1.00	52.75
ATOM	5831	CD2	LEU	755	-18.913	23.374	83.731	1.00	60.24
ATOM	5832	C	LEU	755	-15.763	20.485	84.758	1.00	54.22
ATOM	5833	O	LEU	755	-15.245	21.120	85.674	1.00	63.32
ATOM	5834	N	PRO	756	-15.402	19.222	84.487	1.00	54.61
ATOM	5835	CD	PRO	756	-16.138	18.101	83.867	1.00	59.66
ATOM	5836	CA	PRO	756	-14.247	18.731	85.236	1.00	53.94
ATOM	5837	CB	PRO	756	-13.920	17.450	84.496	1.00	62.48
ATOM	5838	CG	PRO	756	-15.318	16.884	84.278	1.00	64.60
ATOM	5839	C	PRO	756	-13.118	19.769	85.160	1.00	52.59
ATOM	5840	O	PRO	756	-12.297	19.866	86.060	1.00	55.84
ATOM	5841	N	ILE	757	-13.182	20.603	84.119	1.00	48.94
ATOM	5842	CA	ILE	757	-12.277	21.727	83.830	1.00	54.26
ATOM	5843	CB	ILE	757	-12.756	23.038	84.542	1.00	53.01
ATOM	5844	CG2	ILE	757	-12.534	22.971	86.058	1.00	49.76
ATOM	5845	CG1	ILE	757	-12.056	24.262	83.935	1.00	55.96
ATOM	5846	CD1	ILE	757	-12.547	24.641	82.545	1.00	53.00
ATOM	5847	C	ILE	757	-10.752	21.572	83.952	1.00	52.38
ATOM	5848	O	ILE	757	-10.155	21.847	84.998	1.00	53.32
ATOM	5849	N	PRO	758	-10.099	21.231	82.834	1.00	53.18
ATOM	5850	CD	PRO	758	-10.750	21.022	81.530	1.00	54.45
ATOM	5851	CA	PRO	758	-8.654	21.028	82.720	1.00	54.93
ATOM	5852	CB	PRO	758	-8.446	21.000	81.213	1.00	56.20
ATOM	5853	CG	PRO	758	-9.681	20.311	80.752	1.00	56.50
ATOM	5854	C	PRO	758	-7.826	22.113	83.384	1.00	58.40
ATOM	5855	O	PRO	758	-7.931	23.287	83.033	1.00	54.94
ATOM	5856	N	ASN	759	-7.001	21.677	84.337	1.00	66.03
ATOM	5857	CA	ASN	759	-6.104	22.521	85.134	1.00	73.97
ATOM	5858	CB	ASN	759	-4.630	22.308	84.740	1.00	77.46
ATOM	5859	CG	ASN	759	-4.343	22.667	83.295	1.00	77.75
ATOM	5860	OD1	ASN	759	-4.820	22.009	82.371	1.00	78.64
ATOM	5861	ND2	ASN	759	-3.540	23.707	83.095	1.00	76.94
ATOM	5862	C	ASN	759	-6.463	24.002	85.201	1.00	74.62
ATOM	5863	O	ASN	759	-6.045	24.815	84.374	1.00	73.80
ATOM	5864	N	TRP	760	-7.258	24.331	86.209	1.00	77.00
ATOM	5865	CA	TRP	760	-7.718	25.691	86.420	1.00	77.80
ATOM	5866	CB	TRP	760	-9.155	25.825	85.895	1.00	82.07

ATOM	5867	CG	TRP	760	-9.893	27.033	86.374	1.00	78.20
ATOM	5868	CD2	TRP	760	-10.720	27.119	87.541	1.00	75.53
ATOM	5869	CE2	TRP	760	-11.183	28.448	87.625	1.00	75.31
ATOM	5870	CE3	TRP	760	-11.112	26.202	88.526	1.00	71.05
ATOM	5871	CD1	TRP	760	-9.893	28.273	85.808	1.00	76.20
ATOM	5872	NE1	TRP	760	-10.664	29.130	86.555	1.00	79.78
ATOM	5873	CZ2	TRP	760	-12.018	28.886	88.660	1.00	70.06
ATOM	5874	CZ3	TRP	760	-11.941	26.639	89.553	1.00	66.32
ATOM	5875	CH2	TRP	760	-12.384	27.969	89.610	1.00	61.51
ATOM	5876	C	TRP	760	-7.649	26.016	87.902	1.00	74.71
ATOM	5877	O	TRP	760	-7.700	25.124	88.751	1.00	74.27
ATOM	5878	N	GLU	761	-7.536	27.300	88.208	1.00	73.71
ATOM	5879	CA	GLU	761	-7.457	27.736	89.589	1.00	75.31
ATOM	5880	CB	GLU	761	-6.016	28.072	89.952	1.00	84.28
ATOM	5881	CG	GLU	761	-5.020	26.949	89.738	1.00	91.81
ATOM	5882	CD	GLU	761	-3.618	27.362	90.133	1.00	96.50
ATOM	5883	OE1	GLU	761	-2.900	27.935	89.284	1.00	98.97
ATOM	5884	OE2	GLU	761	-3.245	27.126	91.304	1.00	99.89
ATOM	5885	C	GLU	761	-8.322	28.957	89.834	1.00	73.13
ATOM	5886	O	GLU	761	-8.637	29.701	88.910	1.00	72.63
ATOM	5887	N	HIS	762	-8.680	29.160	91.096	1.00	72.50
ATOM	5888	CA	HIS	762	-9.499	30.286	91.509	1.00	73.01
ATOM	5889	CB	HIS	762	-10.462	29.841	92.611	1.00	71.81
ATOM	5890	CG	HIS	762	-11.364	30.925	93.111	1.00	73.61
ATOM	5891	CD2	HIS	762	-12.714	31.029	93.119	1.00	72.78
ATOM	5892	ND1	HIS	762	-10.889	32.072	93.714	1.00	70.31
ATOM	5893	CE1	HIS	762	-11.907	32.830	94.074	1.00	73.83
ATOM	5894	NE2	HIS	762	-13.028	32.221	93.724	1.00	76.13
ATOM	5895	C	HIS	762	-8.594	31.402	92.027	1.00	72.95
ATOM	5896	O	HIS	762	-7.798	31.184	92.940	1.00	74.14
ATOM	5897	N	LYS	763	-8.708	32.585	91.427	1.00	74.79
ATOM	5898	CA	LYS	763	-7.907	33.743	91.835	1.00	79.40
ATOM	5899	CB	LYS	763	-7.410	34.543	90.618	1.00	78.84
ATOM	5900	CG	LYS	763	-7.133	33.738	89.348	1.00	80.20
ATOM	5901	CD	LYS	763	-5.970	32.764	89.489	1.00	78.83
ATOM	5902	CE	LYS	763	-5.827	31.923	88.219	1.00	80.57
ATOM	5903	NZ	LYS	763	-4.709	30.941	88.274	1.00	80.36
ATOM	5904	C	LYS	763	-8.770	34.660	92.706	1.00	82.47
ATOM	5905	O	LYS	763	-9.984	34.752	92.502	1.00	82.46
ATOM	5906	N	GLU	764	-8.147	35.338	93.668	1.00	84.14
ATOM	5907	CA	GLU	764	-8.874	36.248	94.554	1.00	85.06
ATOM	5908	CB	GLU	764	-7.942	36.784	95.645	1.00	88.16
ATOM	5909	CG	GLU	764	-8.624	37.704	96.650	1.00	94.39
ATOM	5910	CD	GLU	764	-7.699	38.131	97.779	1.00	98.87
ATOM	5911	OE1	GLU	764	-7.233	37.251	98.537	1.00	100.00
ATOM	5912	OE2	GLU	764	-7.443	39.349	97.912	1.00	98.35
ATOM	5913	C	GLU	764	-9.455	37.401	93.737	1.00	85.38
ATOM	5914	O	GLU	764	-10.550	37.897	94.017	1.00	83.40
ATOM	5915	N	ASN	765	-8.711	37.791	92.704	1.00	85.13
ATOM	5916	CA	ASN	765	-9.102	38.865	91.798	1.00	82.71
ATOM	5917	CB	ASN	765	-8.648	40.217	92.355	1.00	85.56
ATOM	5918	CG	ASN	765	-9.288	41.393	91.636	1.00	87.41
ATOM	5919	OD1	ASN	765	-9.052	42.547	91.998	1.00	89.99
ATOM	5920	ND2	ASN	765	-10.108	41.106	90.621	1.00	82.56
ATOM	5921	C	ASN	765	-8.442	38.594	90.441	1.00	80.42
ATOM	5922	O	ASN	765	-7.356	39.110	90.154	1.00	75.97
ATOM	5923	N	PRO	766	-9.119	37.805	89.579	1.00	79.03

ATOM	5924	CD	PRO	766	-10.512	37.387	89.826	1.00	76.13
ATOM	5925	CA	PRO	766	-8.692	37.397	88.230	1.00	71.47
ATOM	5926	CB	PRO	766	-9.894	36.603	87.722	1.00	73.49
ATOM	5927	CG	PRO	766	-11.050	37.245	88.432	1.00	76.36
ATOM	5928	C	PRO	766	-8.361	38.557	87.304	1.00	65.08
ATOM	5929	O	PRO	766	-8.876	39.661	87.484	1.00	67.58
ATOM	5930	N	GLU	767	-7.511	38.296	86.311	1.00	61.52
ATOM	5931	CA	GLU	767	-7.097	39.327	85.357	1.00	58.06
ATOM	5932	CB	GLU	767	-5.822	40.021	85.842	1.00	62.48
ATOM	5933	CG	GLU	767	-6.005	40.916	87.056	1.00	71.11
ATOM	5934	CD	GLU	767	-4.819	40.855	87.998	1.00	75.60
ATOM	5935	OE1	GLU	767	-3.702	41.232	87.575	1.00	82.36
ATOM	5936	OE2	GLU	767	-5.002	40.414	89.153	1.00	76.30
ATOM	5937	C	GLU	767	-6.886	38.856	83.920	1.00	54.46
ATOM	5938	O	GLU	767	-6.345	39.603	83.101	1.00	59.23
ATOM	5939	N	THR	768	-7.313	37.636	83.605	1.00	48.87
ATOM	5940	CA	THR	768	-7.167	37.102	82.246	1.00	48.29
ATOM	5941	CB	THR	768	-5.764	36.497	82.031	1.00	45.38
ATOM	5942	OG1	THR	768	-4.946	36.775	83.171	1.00	43.42
ATOM	5943	CG2	THR	768	-5.102	37.097	80.804	1.00	44.51
ATOM	5944	C	THR	768	-8.245	36.049	81.929	1.00	49.26
ATOM	5945	O	THR	768	-8.990	35.635	82.814	1.00	53.71
ATOM	5946	N	GLU	769	-8.336	35.636	80.665	1.00	46.72
ATOM	5947	CA	GLU	769	-9.325	34.643	80.232	1.00	43.77
ATOM	5948	CB	GLU	769	-9.343	34.547	78.713	1.00	41.63
ATOM	5949	CG	GLU	769	-9.734	35.833	78.035	1.00	43.04
ATOM	5950	CD	GLU	769	-9.741	35.729	76.528	1.00	48.96
ATOM	5951	OE1	GLU	769	-9.459	34.639	75.986	1.00	53.94
ATOM	5952	OE2	GLU	769	-10.030	36.754	75.878	1.00	59.42
ATOM	5953	C	GLU	769	-9.067	33.263	80.812	1.00	45.43
ATOM	5954	O	GLU	769	-9.993	32.562	81.238	1.00	38.70
ATOM	5955	N	GLU	770	-7.797	32.873	80.781	1.00	50.36
ATOM	5956	CA	GLU	770	-7.350	31.589	81.302	1.00	54.02
ATOM	5957	CB	GLU	770	-5.830	31.423	81.125	1.00	59.13
ATOM	5958	CG	GLU	770	-5.077	32.663	80.617	1.00	61.43
ATOM	5959	CD	GLU	770	-5.420	33.024	79.170	1.00	64.30
ATOM	5960	OE1	GLU	770	-5.504	34.232	78.856	1.00	57.68
ATOM	5961	OE2	GLU	770	-5.606	32.095	78.350	1.00	65.63
ATOM	5962	C	GLU	770	-7.706	31.535	82.777	1.00	53.09
ATOM	5963	O	GLU	770	-8.159	30.508	83.287	1.00	54.73
ATOM	5964	N	ASP	771	-7.565	32.682	83.431	1.00	47.30
ATOM	5965	CA	ASP	771	-7.851	32.817	84.849	1.00	48.56
ATOM	5966	CB	ASP	771	-7.372	34.179	85.356	1.00	54.19
ATOM	5967	CG	ASP	771	-5.907	34.448	85.046	1.00	63.03
ATOM	5968	OD1	ASP	771	-5.262	35.151	85.856	1.00	66.95
ATOM	5969	OD2	ASP	771	-5.404	33.982	83.996	1.00	63.88
ATOM	5970	C	ASP	771	-9.338	32.678	85.157	1.00	48.54
ATOM	5971	O	ASP	771	-9.702	32.311	86.275	1.00	49.69
ATOM	5972	N	VAL	772	-10.189	32.972	84.168	1.00	46.64
ATOM	5973	CA	VAL	772	-11.647	32.915	84.340	1.00	40.57
ATOM	5974	CB	VAL	772	-12.364	34.025	83.524	1.00	44.16
ATOM	5975	CG1	VAL	772	-13.875	33.885	83.654	1.00	48.41
ATOM	5976	CG2	VAL	772	-11.930	35.400	84.002	1.00	46.62
ATOM	5977	C	VAL	772	-12.279	31.591	83.971	1.00	31.35
ATOM	5978	O	VAL	772	-13.049	31.022	84.747	1.00	26.91
ATOM	5979	N	GLY	773	-12.007	31.151	82.751	1.00	21.06
ATOM	5980	CA	GLY	773	-12.562	29.904	82.281	1.00	17.33

ATOM	5981	C	GLY	773	-12.452	29.882	80.781	1.00	14.20
ATOM	5982	O	GLY	773	-11.686	30.664	80.208	1.00	20.60
ATOM	5983	N	PRO	774	-13.173	28.971	80.116	1.00	9.57
ATOM	5984	CD	PRO	774	-13.982	27.905	80.722	1.00	2.81
ATOM	5985	CA	PRO	774	-13.155	28.848	78.654	1.00	10.71
ATOM	5986	CB	PRO	774	-13.854	27.512	78.416	1.00	4.87
ATOM	5987	CG	PRO	774	-14.806	27.432	79.548	1.00	8.84
ATOM	5988	C	PRO	774	-13.899	29.985	77.967	1.00	17.38
ATOM	5989	O	PRO	774	-14.594	30.776	78.613	1.00	23.43
ATOM	5990	N	VAL	775	-13.759	30.053	76.651	1.00	19.13
ATOM	5991	CA	VAL	775	-14.425	31.082	75.866	1.00	16.79
ATOM	5992	CB	VAL	775	-13.479	31.643	74.783	1.00	12.81
ATOM	5993	CG1	VAL	775	-14.225	32.579	73.837	1.00	14.17
ATOM	5994	CG2	VAL	775	-12.325	32.352	75.431	1.00	20.41
ATOM	5995	C	VAL	775	-15.684	30.585	75.162	1.00	14.79
ATOM	5996	O	VAL	775	-15.596	29.979	74.092	1.00	24.08
ATOM	5997	N	VAL	776	-16.852	30.782	75.754	1.00	10.15
ATOM	5998	CA	VAL	776	-18.050	30.379	75.033	1.00	15.99
ATOM	5999	CB	VAL	776	-19.241	30.122	75.936	1.00	18.40
ATOM	6000	CG1	VAL	776	-20.445	29.773	75.087	1.00	7.39
ATOM	6001	CG2	VAL	776	-18.929	28.991	76.889	1.00	26.87
ATOM	6002	C	VAL	776	-18.372	31.542	74.100	1.00	23.67
ATOM	6003	O	VAL	776	-18.266	32.712	74.489	1.00	25.10
ATOM	6004	N	GLN	777	-18.756	31.227	72.870	1.00	19.11
ATOM	6005	CA	GLN	777	-19.052	32.265	71.896	1.00	18.92
ATOM	6006	CB	GLN	777	-17.941	32.263	70.851	1.00	17.78
ATOM	6007	CG	GLN	777	-18.044	33.300	69.755	1.00	36.78
ATOM	6008	CD	GLN	777	-16.751	33.407	68.936	1.00	51.99
ATOM	6009	OE1	GLN	777	-16.709	34.081	67.904	1.00	53.70
ATOM	6010	NE2	GLN	777	-15.687	32.748	69.407	1.00	54.73
ATOM	6011	C	GLN	777	-20.431	32.085	71.254	1.00	21.13
ATOM	6012	O	GLN	777	-20.831	30.975	70.929	1.00	22.10
ATOM	6013	N	HIS	778	-21.202	33.162	71.163	1.00	13.44
ATOM	6014	CA	HIS	778	-22.515	33.073	70.536	1.00	13.85
ATOM	6015	CB	HIS	778	-23.624	33.539	71.487	1.00	12.08
ATOM	6016	CG	HIS	778	-23.957	32.566	72.581	1.00	11.66
ATOM	6017	CD2	HIS	778	-25.139	32.261	73.171	1.00	9.35
ATOM	6018	ND1	HIS	778	-23.006	31.797	73.221	1.00	12.38
ATOM	6019	CE1	HIS	778	-23.590	31.067	74.155	1.00	7.60
ATOM	6020	NE2	HIS	778	-24.885	31.329	74.146	1.00	2.00
ATOM	6021	C	HIS	778	-22.511	33.904	69.246	1.00	15.98
ATOM	6022	O	HIS	778	-21.984	35.022	69.208	1.00	14.14
ATOM	6023	N	ILE	779	-23.024	33.314	68.168	1.00	13.02
ATOM	6024	CA	ILE	779	-23.080	33.995	66.883	1.00	12.04
ATOM	6025	CB	ILE	779	-22.425	33.177	65.745	1.00	15.82
ATOM	6026	CG2	ILE	779	-22.403	33.995	64.466	1.00	14.58
ATOM	6027	CG1	ILE	779	-21.007	32.756	66.122	1.00	13.46
ATOM	6028	CD1	ILE	779	-20.128	33.903	66.547	1.00	25.65
ATOM	6029	C	ILE	779	-24.529	34.225	66.523	1.00	13.37
ATOM	6030	O	ILE	779	-25.324	33.289	66.447	1.00	7.80
ATOM	6031	N	TYR	780	-24.882	35.486	66.331	1.00	14.91
ATOM	6032	CA	TYR	780	-26.245	35.817	65.975	1.00	8.58
ATOM	6033	CB	TYR	780	-26.870	36.699	67.030	1.00	2.00
ATOM	6034	CG	TYR	780	-27.417	35.910	68.180	1.00	2.00
ATOM	6035	CD1	TYR	780	-26.811	35.964	69.433	1.00	3.03
ATOM	6036	CE1	TYR	780	-27.342	35.265	70.522	1.00	6.69
ATOM	6037	CD2	TYR	780	-28.566	35.130	68.029	1.00	2.00

ATOM	6038	CE2	TYR	780	-29.112	34.425	69.109	1.00	2.00
ATOM	6039	CZ	TYR	780	-28.493	34.499	70.355	1.00	5.47
ATOM	6040	OH	TYR	780	-29.024	33.842	71.443	1.00	9.06
ATOM	6041	C	TYR	780	-26.277	36.483	64.631	1.00	9.92
ATOM	6042	O	TYR	780	-25.594	37.475	64.395	1.00	5.56
ATOM	6043	N	GLU	781	-27.075	35.915	63.743	1.00	3.66
ATOM	6044	CA	GLU	781	-27.178	36.437	62.410	1.00	2.97
ATOM	6045	CB	GLU	781	-26.540	35.467	61.422	1.00	10.43
ATOM	6046	CG	GLU	781	-26.624	35.918	59.977	1.00	18.04
ATOM	6047	CD	GLU	781	-26.298	34.812	59.002	1.00	26.51
ATOM	6048	OE1	GLU	781	-25.171	34.829	58.471	1.00	29.43
ATOM	6049	OE2	GLU	781	-27.165	33.937	58.758	1.00	32.68
ATOM	6050	C	GLU	781	-28.611	36.692	62.004	1.00	9.88
ATOM	6051	O	GLU	781	-29.477	35.817	62.117	1.00	4.13
ATOM	6052	N	LEU	782	-28.840	37.920	61.541	1.00	8.96
ATOM	6053	CA	LEU	782	-30.134	38.349	61.039	1.00	9.21
ATOM	6054	CB	LEU	782	-30.499	39.711	61.654	1.00	4.18
ATOM	6055	CG	LEU	782	-31.926	40.280	61.577	1.00	2.00
ATOM	6056	CD1	LEU	782	-32.038	41.308	60.496	1.00	2.00
ATOM	6057	CD2	LEU	782	-32.940	39.190	61.374	1.00	2.00
ATOM	6058	C	LEU	782	-29.886	38.444	59.524	1.00	9.79
ATOM	6059	O	LEU	782	-29.020	39.206	59.098	1.00	5.33
ATOM	6060	N	ARG	783	-30.560	37.596	58.741	1.00	3.84
ATOM	6061	CA	ARG	783	-30.403	37.574	57.281	1.00	9.44
ATOM	6062	CB	ARG	783	-29.694	36.288	56.839	1.00	13.31
ATOM	6063	CG	ARG	783	-30.100	35.770	55.443	1.00	10.22
ATOM	6064	CD	ARG	783	-29.022	34.934	54.760	1.00	2.00
ATOM	6065	NE	ARG	783	-27.888	35.751	54.360	1.00	2.00
ATOM	6066	CZ	ARG	783	-27.340	35.718	53.154	1.00	4.99
ATOM	6067	NH1	ARG	783	-27.826	34.901	52.235	1.00	10.02
ATOM	6068	NH2	ARG	783	-26.320	36.514	52.853	1.00	11.37
ATOM	6069	C	ARG	783	-31.704	37.717	56.486	1.00	18.42
ATOM	6070	O	ARG	783	-32.649	36.940	56.682	1.00	20.94
ATOM	6071	N	ASN	784	-31.731	38.677	55.559	1.00	20.42
ATOM	6072	CA	ASN	784	-32.910	38.899	54.727	1.00	20.80
ATOM	6073	CB	ASN	784	-33.046	40.379	54.368	1.00	27.05
ATOM	6074	CG	ASN	784	-34.185	40.644	53.389	1.00	33.36
ATOM	6075	OD1	ASN	784	-35.148	39.879	53.312	1.00	36.77
ATOM	6076	ND2	ASN	784	-34.068	41.728	52.626	1.00	31.59
ATOM	6077	C	ASN	784	-32.766	38.072	53.465	1.00	24.06
ATOM	6078	O	ASN	784	-31.812	38.253	52.713	1.00	23.21
ATOM	6079	N	ASN	785	-33.707	37.154	53.249	1.00	28.48
ATOM	6080	CA	ASN	785	-33.690	36.274	52.075	1.00	31.64
ATOM	6081	CB	ASN	785	-33.948	34.822	52.470	1.00	24.50
ATOM	6082	CG	ASN	785	-32.893	34.274	53.367	1.00	20.10
ATOM	6083	OD1	ASN	785	-31.773	33.997	52.928	1.00	27.53
ATOM	6084	ND2	ASN	785	-33.231	34.115	54.641	1.00	10.11
ATOM	6085	C	ASN	785	-34.741	36.652	51.061	1.00	38.47
ATOM	6086	O	ASN	785	-34.547	36.440	49.863	1.00	39.73
ATOM	6087	N	GLY	786	-35.880	37.140	51.556	1.00	39.84
ATOM	6088	CA	GLY	786	-36.974	37.532	50.687	1.00	37.63
ATOM	6089	C	GLY	786	-36.493	38.424	49.568	1.00	36.93
ATOM	6090	O	GLY	786	-35.406	39.004	49.656	1.00	42.83
ATOM	6091	N	PRO	787	-37.262	38.520	48.478	1.00	31.10
ATOM	6092	CD	PRO	787	-38.559	37.861	48.262	1.00	25.50
ATOM	6093	CA	PRO	787	-36.888	39.357	47.335	1.00	25.92
ATOM	6094	CB	PRO	787	-37.992	39.054	46.327	1.00	25.56

ATOM	6095	CG	PRO	787	-39.168	38.718	47.200	1.00	26.83
ATOM	6096	C	PRO	787	-36.832	40.845	47.712	1.00	31.02
ATOM	6097	O	PRO	787	-35.845	41.544	47.428	1.00	23.75
ATOM	6098	N	SER	788	-37.868	41.295	48.423	1.00	28.06
ATOM	6099	CA	SER	788	-37.968	42.677	48.862	1.00	25.15
ATOM	6100	CB	SER	788	-39.371	42.969	49.359	1.00	24.58
ATOM	6101	OG	SER	788	-40.300	42.563	48.379	1.00	29.72
ATOM	6102	C	SER	788	-36.966	43.015	49.939	1.00	22.05
ATOM	6103	O	SER	788	-36.607	42.177	50.761	1.00	21.67
ATOM	6104	N	SER	789	-36.542	44.271	49.929	1.00	22.68
ATOM	6105	CA	SER	789	-35.575	44.784	50.882	1.00	24.01
ATOM	6106	CB	SER	789	-34.626	45.720	50.156	1.00	13.36
ATOM	6107	OG	SER	789	-34.125	45.074	49.001	1.00	31.16
ATOM	6108	C	SER	789	-36.257	45.530	52.023	1.00	27.06
ATOM	6109	O	SER	789	-37.478	45.694	52.022	1.00	31.97
ATOM	6110	N	PHE	790	-35.468	45.935	53.014	1.00	26.48
ATOM	6111	CA	PHE	790	-35.982	46.681	54.153	1.00	24.36
ATOM	6112	CB	PHE	790	-36.389	45.752	55.306	1.00	21.91
ATOM	6113	CG	PHE	790	-35.241	45.191	56.106	1.00	24.80
ATOM	6114	CD1	PHE	790	-34.529	45.989	57.002	1.00	29.16
ATOM	6115	CD2	PHE	790	-34.940	43.837	56.046	1.00	27.52
ATOM	6116	CE1	PHE	790	-33.544	45.449	57.825	1.00	28.58
ATOM	6117	CE2	PHE	790	-33.957	43.289	56.868	1.00	31.12
ATOM	6118	CZ	PHE	790	-33.260	44.100	57.761	1.00	25.48
ATOM	6119	C	PHE	790	-34.930	47.684	54.575	1.00	19.96
ATOM	6120	O	PHE	790	-33.759	47.356	54.628	1.00	21.60
ATOM	6121	N	SER	791	-35.357	48.905	54.878	1.00	24.25
ATOM	6122	CA	SER	791	-34.445	49.977	55.257	1.00	21.57
ATOM	6123	CB	SER	791	-34.967	51.312	54.710	1.00	24.55
ATOM	6124	OG	SER	791	-36.292	51.569	55.138	1.00	33.27
ATOM	6125	C	SER	791	-34.113	50.114	56.741	1.00	16.77
ATOM	6126	O	SER	791	-33.167	50.819	57.102	1.00	19.13
ATOM	6127	N	LYS	792	-34.873	49.452	57.601	1.00	4.33
ATOM	6128	CA	LYS	792	-34.608	49.559	59.025	1.00	2.00
ATOM	6129	CB	LYS	792	-35.118	50.887	59.560	1.00	2.19
ATOM	6130	CG	LYS	792	-34.218	51.518	60.586	1.00	13.68
ATOM	6131	CD	LYS	792	-33.362	52.623	59.979	1.00	25.63
ATOM	6132	CE	LYS	792	-34.198	53.873	59.685	1.00	35.93
ATOM	6133	NZ	LYS	792	-33.368	55.083	59.394	1.00	42.48
ATOM	6134	C	LYS	792	-35.271	48.452	59.805	1.00	8.84
ATOM	6135	O	LYS	792	-36.436	48.120	59.566	1.00	14.30
ATOM	6136	N	ALA	793	-34.522	47.885	60.740	1.00	2.00
ATOM	6137	CA	ALA	793	-35.030	46.823	61.585	1.00	2.00
ATOM	6138	CB	ALA	793	-34.728	45.491	60.985	1.00	5.67
ATOM	6139	C	ALA	793	-34.392	46.936	62.949	1.00	4.38
ATOM	6140	O	ALA	793	-33.413	47.663	63.137	1.00	3.91
ATOM	6141	N	MET	794	-34.947	46.210	63.906	1.00	5.71
ATOM	6142	CA	MET	794	-34.419	46.246	65.258	1.00	12.28
ATOM	6143	CB	MET	794	-35.451	46.861	66.197	1.00	11.49
ATOM	6144	CG	MET	794	-35.483	48.359	66.135	1.00	9.17
ATOM	6145	SD	MET	794	-34.008	49.058	66.841	1.00	17.94
ATOM	6146	CE	MET	794	-34.294	48.663	68.588	1.00	3.21
ATOM	6147	C	MET	794	-34.049	44.868	65.754	1.00	11.99
ATOM	6148	O	MET	794	-34.810	43.919	65.563	1.00	20.42
ATOM	6149	N	LEU	795	-32.892	44.752	66.397	1.00	4.69
ATOM	6150	CA	LEU	795	-32.483	43.457	66.918	1.00	9.57
ATOM	6151	CB	LEU	795	-31.220	42.967	66.219	1.00	11.56

ATOM	6152	CG	LEU	795	-30.911	41.475	66.350	1.00	10.48
ATOM	6153	CD1	LEU	795	-30.227	40.988	65.082	1.00	11.45
ATOM	6154	CD2	LEU	795	-30.025	41.232	67.559	1.00	11.96
ATOM	6155	C	LEU	795	-32.304	43.517	68.431	1.00	13.03
ATOM	6156	O	LEU	795	-31.630	44.405	68.953	1.00	11.56
ATOM	6157	N	HIS	796	-32.931	42.573	69.127	1.00	13.00
ATOM	6158	CA	HIS	796	-32.881	42.524	70.580	1.00	17.09
ATOM	6159	CB	HIS	796	-34.285	42.660	71.170	1.00	28.43
ATOM	6160	CG	HIS	796	-34.699	44.074	71.384	1.00	30.03
ATOM	6161	CD2	HIS	796	-35.494	44.893	70.654	1.00	28.04
ATOM	6162	ND1	HIS	796	-34.207	44.837	72.421	1.00	32.60
ATOM	6163	CE1	HIS	796	-34.674	46.067	72.318	1.00	34.43
ATOM	6164	NE2	HIS	796	-35.456	46.126	71.253	1.00	37.56
ATOM	6165	C	HIS	796	-32.237	41.285	71.132	1.00	19.16
ATOM	6166	O	HIS	796	-32.675	40.169	70.845	1.00	19.36
ATOM	6167	N	LEU	797	-31.252	41.498	71.998	1.00	19.30
ATOM	6168	CA	LEU	797	-30.521	40.398	72.600	1.00	18.66
ATOM	6169	CB	LEU	797	-29.045	40.457	72.208	1.00	20.78
ATOM	6170	CG	LEU	797	-28.202	39.319	72.785	1.00	17.33
ATOM	6171	CD1	LEU	797	-28.649	38.031	72.144	1.00	20.74
ATOM	6172	CD2	LEU	797	-26.728	39.544	72.539	1.00	12.12
ATOM	6173	C	LEU	797	-30.612	40.360	74.105	1.00	17.27
ATOM	6174	O	LEU	797	-30.286	41.336	74.781	1.00	16.07
ATOM	6175	N	GLN	798	-31.018	39.205	74.617	1.00	13.06
ATOM	6176	CA	GLN	798	-31.123	38.983	76.050	1.00	14.70
ATOM	6177	CB	GLN	798	-32.506	38.432	76.388	1.00	17.36
ATOM	6178	CG	GLN	798	-33.633	39.411	76.070	1.00	21.06
ATOM	6179	CD	GLN	798	-34.994	38.970	76.594	1.00	17.69
ATOM	6180	OE1	GLN	798	-36.019	39.259	75.984	1.00	25.73
ATOM	6181	NE2	GLN	798	-35.011	38.285	77.730	1.00	7.59
ATOM	6182	C	GLN	798	-30.021	37.997	76.431	1.00	15.98
ATOM	6183	O	GLN	798	-29.959	36.900	75.881	1.00	24.28
ATOM	6184	N	TRP	799	-29.148	38.391	77.353	1.00	14.62
ATOM	6185	CA	TRP	799	-28.027	37.539	77.755	1.00	20.23
ATOM	6186	CB	TRP	799	-26.714	38.263	77.463	1.00	20.50
ATOM	6187	CG	TRP	799	-25.489	37.465	77.755	1.00	24.19
ATOM	6188	CD2	TRP	799	-24.771	36.636	76.838	1.00	25.97
ATOM	6189	CE2	TRP	799	-23.665	36.107	77.529	1.00	25.31
ATOM	6190	CE3	TRP	799	-24.953	36.282	75.497	1.00	27.73
ATOM	6191	CD1	TRP	799	-24.811	37.410	78.934	1.00	25.16
ATOM	6192	NE1	TRP	799	-23.711	36.596	78.810	1.00	28.20
ATOM	6193	CZ2	TRP	799	-22.747	35.253	76.928	1.00	21.78
ATOM	6194	CZ3	TRP	799	-24.042	35.434	74.902	1.00	19.15
ATOM	6195	CH2	TRP	799	-22.955	34.928	75.618	1.00	22.02
ATOM	6196	C	TRP	799	-28.051	37.112	79.217	1.00	24.51
ATOM	6197	O	TRP	799	-28.247	37.942	80.103	1.00	28.05
ATOM	6198	N	PRO	800	-27.791	35.814	79.489	1.00	26.90
ATOM	6199	CD	PRO	800	-27.462	34.772	78.497	1.00	27.64
ATOM	6200	CA	PRO	800	-27.778	35.256	80.846	1.00	23.26
ATOM	6201	CB	PRO	800	-27.749	33.751	80.580	1.00	21.04
ATOM	6202	CG	PRO	800	-26.897	33.660	79.361	1.00	24.59
ATOM	6203	C	PRO	800	-26.527	35.735	81.583	1.00	23.39
ATOM	6204	O	PRO	800	-25.470	35.106	81.515	1.00	27.83
ATOM	6205	N	TYR	801	-26.664	36.847	82.297	1.00	22.73
ATOM	6206	CA	TYR	801	-25.541	37.448	83.007	1.00	21.46
ATOM	6207	CB	TYR	801	-25.764	38.949	83.157	1.00	25.27
ATOM	6208	CG	TYR	801	-24.564	39.668	83.720	1.00	32.02

ATOM	6209	CD1	TYR	801	-23.278	39.392	83.246	1.00	24.39
ATOM	6210	CE1	TYR	801	-22.171	40.022	83.784	1.00	26.66
ATOM	6211	CD2	TYR	801	-24.708	40.606	84.748	1.00	32.65
ATOM	6212	CE2	TYR	801	-23.602	41.240	85.293	1.00	31.68
ATOM	6213	CZ	TYR	801	-22.339	40.943	84.807	1.00	31.96
ATOM	6214	OH	TYR	801	-21.241	41.542	85.369	1.00	45.18
ATOM	6215	C	TYR	801	-25.170	36.848	84.358	1.00	22.85
ATOM	6216	O	TYR	801	-24.047	36.386	84.546	1.00	21.53
ATOM	6217	N	LYS	802	-26.078	36.940	85.321	1.00	20.45
ATOM	6218	CA	LYS	802	-25.826	36.400	86.650	1.00	17.22
ATOM	6219	CB	LYS	802	-25.631	37.529	87.659	1.00	10.75
ATOM	6220	CG	LYS	802	-24.275	38.204	87.573	1.00	22.05
ATOM	6221	CD	LYS	802	-24.230	39.446	88.441	1.00	22.32
ATOM	6222	CE	LYS	802	-22.811	39.869	88.745	1.00	16.19
ATOM	6223	NZ	LYS	802	-22.275	39.152	89.930	1.00	20.26
ATOM	6224	C	LYS	802	-26.957	35.506	87.113	1.00	22.68
ATOM	6225	O	LYS	802	-27.990	35.409	86.453	1.00	19.60
ATOM	6226	N	TYR	803	-26.717	34.800	88.213	1.00	33.14
ATOM	6227	CA	TYR	803	-27.708	33.919	88.825	1.00	39.79
ATOM	6228	CB	TYR	803	-27.653	32.500	88.249	1.00	49.82
ATOM	6229	CG	TYR	803	-28.719	31.569	88.795	1.00	60.25
ATOM	6230	CD1	TYR	803	-28.389	30.301	89.279	1.00	67.68
ATOM	6231	CE1	TYR	803	-29.362	29.454	89.814	1.00	70.58
ATOM	6232	CD2	TYR	803	-30.053	31.966	88.859	1.00	66.29
ATOM	6233	CE2	TYR	803	-31.036	31.126	89.394	1.00	72.14
ATOM	6234	CZ	TYR	803	-30.681	29.878	89.871	1.00	72.43
ATOM	6235	OH	TYR	803	-31.642	29.070	90.424	1.00	73.24
ATOM	6236	C	TYR	803	-27.420	33.907	90.316	1.00	43.28
ATOM	6237	O	TYR	803	-26.401	33.365	90.773	1.00	35.39
ATOM	6238	N	ASN	804	-28.310	34.570	91.053	1.00	48.69
ATOM	6239	CA	ASN	804	-28.217	34.701	92.500	1.00	54.36
ATOM	6240	CB	ASN	804	-28.238	33.320	93.176	1.00	60.34
ATOM	6241	CG	ASN	804	-29.362	32.427	92.660	1.00	65.52
ATOM	6242	OD1	ASN	804	-30.526	32.834	92.589	1.00	68.53
ATOM	6243	ND2	ASN	804	-29.010	31.200	92.288	1.00	62.05
ATOM	6244	C	ASN	804	-26.938	35.462	92.851	1.00	50.25
ATOM	6245	O	ASN	804	-26.078	34.959	93.571	1.00	49.69
ATOM	6246	N	ASN	805	-26.815	36.667	92.300	1.00	48.33
ATOM	6247	CA	ASN	805	-25.660	37.534	92.535	1.00	52.77
ATOM	6248	CB	ASN	805	-25.407	37.737	94.046	1.00	63.47
ATOM	6249	CG	ASN	805	-26.655	38.146	94.824	1.00	73.55
ATOM	6250	OD1	ASN	805	-26.901	37.645	95.929	1.00	76.59
ATOM	6251	ND2	ASN	805	-27.431	39.075	94.269	1.00	72.38
ATOM	6252	C	ASN	805	-24.376	36.977	91.930	1.00	48.57
ATOM	6253	O	ASN	805	-23.315	37.593	92.065	1.00	52.15
ATOM	6254	N	ASN	806	-24.459	35.834	91.252	1.00	45.03
ATOM	6255	CA	ASN	806	-23.256	35.209	90.700	1.00	39.05
ATOM	6256	CB	ASN	806	-23.056	33.843	91.356	1.00	39.88
ATOM	6257	CG	ASN	806	-23.126	33.915	92.879	1.00	45.99
ATOM	6258	OD1	ASN	806	-23.866	33.154	93.513	1.00	49.29
ATOM	6259	ND2	ASN	806	-22.366	34.843	93.472	1.00	36.04
ATOM	6260	C	ASN	806	-23.139	35.088	89.178	1.00	32.33
ATOM	6261	O	ASN	806	-23.995	34.502	88.515	1.00	30.34
ATOM	6262	N	THR	807	-22.035	35.606	88.645	1.00	23.42
ATOM	6263	CA	THR	807	-21.765	35.584	87.209	1.00	22.62
ATOM	6264	CB	THR	807	-20.382	36.216	86.911	1.00	22.66
ATOM	6265	OG1	THR	807	-20.191	37.381	87.731	1.00	17.52

ATOM	6266	CG2	THR	807	-20.255	36.585	85.420	1.00	6.60
ATOM	6267	C	THR	807	-21.783	34.157	86.639	1.00	29.10
ATOM	6268	O	THR	807	-21.653	33.179	87.378	1.00	37.49
ATOM	6269	N	LEU	808	-21.915	34.064	85.317	1.00	26.06
ATOM	6270	CA	LEU	808	-21.951	32.806	84.562	1.00	21.82
ATOM	6271	CB	LEU	808	-23.184	31.979	84.956	1.00	22.30
ATOM	6272	CG	LEU	808	-24.609	32.549	85.010	1.00	11.83
ATOM	6273	CD1	LEU	808	-25.316	32.446	83.675	1.00	14.07
ATOM	6274	CD2	LEU	808	-25.382	31.726	85.991	1.00	12.61
ATOM	6275	C	LEU	808	-22.018	33.222	83.097	1.00	25.63
ATOM	6276	O	LEU	808	-23.035	33.764	82.650	1.00	25.63
ATOM	6277	N	LEU	809	-20.946	32.985	82.348	1.00	19.55
ATOM	6278	CA	LEU	809	-20.899	33.423	80.945	1.00	23.14
ATOM	6279	CB	LEU	809	-22.161	33.009	80.169	1.00	25.34
ATOM	6280	CG	LEU	809	-22.100	31.813	79.216	1.00	29.98
ATOM	6281	CD1	LEU	809	-23.419	31.698	78.437	1.00	29.86
ATOM	6282	CD2	LEU	809	-20.925	31.987	78.261	1.00	15.82
ATOM	6283	C	LEU	809	-20.768	34.957	80.933	1.00	22.23
ATOM	6284	O	LEU	809	-21.720	35.673	80.615	1.00	14.52
ATOM	6285	N	TYR	810	-19.586	35.429	81.332	1.00	20.64
ATOM	6286	CA	TYR	810	-19.221	36.847	81.420	1.00	11.58
ATOM	6287	CB	TYR	810	-18.087	36.964	82.460	1.00	14.84
ATOM	6288	CG	TYR	810	-17.246	38.241	82.493	1.00	13.79
ATOM	6289	CD1	TYR	810	-17.339	39.131	83.569	1.00	8.95
ATOM	6290	CE1	TYR	810	-16.540	40.266	83.641	1.00	2.28
ATOM	6291	CD2	TYR	810	-16.320	38.525	81.486	1.00	7.56
ATOM	6292	CE2	TYR	810	-15.514	39.661	81.552	1.00	13.98
ATOM	6293	CZ	TYR	810	-15.629	40.529	82.632	1.00	14.66
ATOM	6294	OH	TYR	810	-14.842	41.665	82.695	1.00	18.41
ATOM	6295	C	TYR	810	-18.773	37.368	80.057	1.00	10.79
ATOM	6296	O	TYR	810	-17.855	36.811	79.469	1.00	5.79
ATOM	6297	N	ILE	811	-19.403	38.437	79.565	1.00	14.69
ATOM	6298	CA	ILE	811	-19.028	39.007	78.261	1.00	18.20
ATOM	6299	CB	ILE	811	-20.185	39.808	77.591	1.00	14.67
ATOM	6300	CG2	ILE	811	-19.803	40.200	76.165	1.00	9.56
ATOM	6301	CG1	ILE	811	-21.445	38.956	77.500	1.00	23.01
ATOM	6302	CD1	ILE	811	-22.567	39.604	76.691	1.00	25.41
ATOM	6303	C	ILE	811	-17.781	39.900	78.302	1.00	14.75
ATOM	6304	O	ILE	811	-17.637	40.785	79.154	1.00	12.69
ATOM	6305	N	LEU	812	-16.889	39.655	77.352	1.00	8.95
ATOM	6306	CA	LEU	812	-15.654	40.397	77.231	1.00	21.02
ATOM	6307	CB	LEU	812	-14.558	39.466	76.734	1.00	30.28
ATOM	6308	CG	LEU	812	-14.129	38.330	77.655	1.00	25.74
ATOM	6309	CD1	LEU	812	-13.296	37.357	76.852	1.00	26.09
ATOM	6310	CD2	LEU	812	-13.341	38.893	78.824	1.00	22.51
ATOM	6311	C	LEU	812	-15.832	41.550	76.253	1.00	27.00
ATOM	6312	O	LEU	812	-15.538	42.697	76.586	1.00	36.22
ATOM	6313	N	HIS	813	-16.241	41.230	75.028	1.00	25.35
ATOM	6314	CA	HIS	813	-16.497	42.242	74.006	1.00	27.59
ATOM	6315	CB	HIS	813	-15.207	42.968	73.606	1.00	33.71
ATOM	6316	CG	HIS	813	-14.462	42.313	72.485	1.00	52.51
ATOM	6317	CD2	HIS	813	-13.941	41.068	72.368	1.00	55.66
ATOM	6318	ND1	HIS	813	-14.214	42.954	71.291	1.00	56.65
ATOM	6319	CE1	HIS	813	-13.572	42.127	70.480	1.00	63.51
ATOM	6320	NE2	HIS	813	-13.395	40.979	71.108	1.00	61.85
ATOM	6321	C	HIS	813	-17.165	41.591	72.794	1.00	24.06
ATOM	6322	O	HIS	813	-16.891	40.439	72.483	1.00	24.99

ATOM	6323	N	TYR	814	-18.055	42.322	72.130	1.00	21.59
ATOM	6324	CA	TYR	814	-18.761	41.802	70.958	1.00	15.27
ATOM	6325	CB	TYR	814	-20.278	41.879	71.174	1.00	18.58
ATOM	6326	CG	TYR	814	-20.816	43.277	71.430	1.00	25.51
ATOM	6327	CD1	TYR	814	-20.874	43.794	72.722	1.00	27.29
ATOM	6328	CE1	TYR	814	-21.380	45.069	72.966	1.00	28.22
ATOM	6329	CD2	TYR	814	-21.281	44.079	70.380	1.00	27.62
ATOM	6330	CE2	TYR	814	-21.788	45.359	70.616	1.00	23.90
ATOM	6331	CZ	TYR	814	-21.835	45.844	71.914	1.00	25.58
ATOM	6332	OH	TYR	814	-22.321	47.107	72.173	1.00	28.50
ATOM	6333	C	TYR	814	-18.387	42.520	69.661	1.00	10.03
ATOM	6334	O	TYR	814	-17.940	43.664	69.678	1.00	5.65
ATOM	6335	N	ASP	815	-18.573	41.846	68.534	1.00	11.25
ATOM	6336	CA	ASP	815	-18.260	42.446	67.246	1.00	16.61
ATOM	6337	CB	ASP	815	-17.007	41.840	66.630	1.00	24.61
ATOM	6338	CG	ASP	815	-15.743	42.355	67.284	1.00	37.19
ATOM	6339	OD1	ASP	815	-15.582	43.595	67.380	1.00	45.73
ATOM	6340	OD2	ASP	815	-14.923	41.523	67.727	1.00	46.14
ATOM	6341	C	ASP	815	-19.412	42.371	66.283	1.00	14.86
ATOM	6342	O	ASP	815	-20.276	41.502	66.394	1.00	16.74
ATOM	6343	N	ILE	816	-19.415	43.292	65.328	1.00	14.03
ATOM	6344	CA	ILE	816	-20.495	43.355	64.368	1.00	10.42
ATOM	6345	CB	ILE	816	-21.305	44.665	64.533	1.00	9.61
ATOM	6346	CG2	ILE	816	-22.424	44.730	63.509	1.00	16.15
ATOM	6347	CG1	ILE	816	-21.901	44.750	65.937	1.00	6.18
ATOM	6348	CD1	ILE	816	-22.782	45.942	66.152	1.00	6.72
ATOM	6349	C	ILE	816	-20.040	43.247	62.932	1.00	12.48
ATOM	6350	O	ILE	816	-18.931	43.656	62.576	1.00	18.52
ATOM	6351	N	ASP	817	-20.912	42.667	62.118	1.00	13.34
ATOM	6352	CA	ASP	817	-20.666	42.530	60.703	1.00	18.72
ATOM	6353	CB	ASP	817	-20.220	41.117	60.344	1.00	28.06
ATOM	6354	CG	ASP	817	-18.765	41.067	59.907	1.00	42.03
ATOM	6355	OD1	ASP	817	-18.192	42.156	59.665	1.00	47.06
ATOM	6356	OD2	ASP	817	-18.194	39.952	59.806	1.00	46.84
ATOM	6357	C	ASP	817	-21.929	42.924	59.964	1.00	18.86
ATOM	6358	O	ASP	817	-23.013	42.409	60.232	1.00	17.08
ATOM	6359	N	GLY	818	-21.777	43.896	59.076	1.00	23.27
ATOM	6360	CA	GLY	818	-22.899	44.388	58.308	1.00	17.75
ATOM	6361	C	GLY	818	-23.404	45.682	58.915	1.00	16.46
ATOM	6362	O	GLY	818	-22.876	46.160	59.927	1.00	13.31
ATOM	6363	N	PRO	819	-24.452	46.265	58.313	1.00	15.56
ATOM	6364	CD	PRO	819	-25.111	45.736	57.106	1.00	13.38
ATOM	6365	CA	PRO	819	-25.091	47.510	58.733	1.00	8.26
ATOM	6366	CB	PRO	819	-26.011	47.816	57.557	1.00	2.39
ATOM	6367	CG	PRO	819	-26.421	46.476	57.114	1.00	3.81
ATOM	6368	C	PRO	819	-25.863	47.402	60.048	1.00	8.60
ATOM	6369	O	PRO	819	-27.088	47.242	60.061	1.00	9.77
ATOM	6370	N	MET	820	-25.141	47.502	61.156	1.00	4.46
ATOM	6371	CA	MET	820	-25.768	47.441	62.465	1.00	10.86
ATOM	6372	CB	MET	820	-26.012	45.982	62.856	1.00	19.11
ATOM	6373	CG	MET	820	-26.653	45.787	64.223	1.00	26.26
ATOM	6374	SD	MET	820	-26.424	44.116	64.872	1.00	28.01
ATOM	6375	CE	MET	820	-27.306	43.159	63.650	1.00	19.55
ATOM	6376	C	MET	820	-24.907	48.133	63.527	1.00	13.46
ATOM	6377	O	MET	820	-23.675	48.176	63.422	1.00	15.74
ATOM	6378	N	ASN	821	-25.576	48.745	64.500	1.00	9.93
ATOM	6379	CA	ASN	821	-24.913	49.409	65.611	1.00	10.87

ATOM	6380	CB	ASN	821	-25.176	50.909	65.582	1.00	12.86
ATOM	6381	CG	ASN	821	-24.411	51.604	64.477	1.00	26.21
ATOM	6382	OD1	ASN	821	-23.446	51.055	63.949	1.00	34.19
ATOM	6383	ND2	ASN	821	-24.835	52.818	64.120	1.00	28.83
ATOM	6384	C	ASN	821	-25.571	48.786	66.818	1.00	17.29
ATOM	6385	O	ASN	821	-26.781	48.566	66.807	1.00	24.42
ATOM	6386	N	CYS	822	-24.793	48.481	67.853	1.00	17.13
ATOM	6387	CA	CYS	822	-25.366	47.849	69.035	1.00	12.56
ATOM	6388	C	CYS	822	-25.103	48.554	70.354	1.00	10.33
ATOM	6389	O	CYS	822	-24.176	49.344	70.465	1.00	7.89
ATOM	6390	CB	CYS	822	-24.877	46.411	69.118	1.00	17.23
ATOM	6391	SG	CYS	822	-25.428	45.403	67.716	1.00	19.61
ATOM	6392	N	THR	823	-25.904	48.232	71.365	1.00	9.12
ATOM	6393	CA	THR	823	-25.736	48.838	72.676	1.00	8.70
ATOM	6394	CB	THR	823	-26.500	50.176	72.773	1.00	12.06
ATOM	6395	OG1	THR	823	-25.786	51.192	72.042	1.00	8.69
ATOM	6396	CG2	THR	823	-26.687	50.599	74.244	1.00	2.00
ATOM	6397	C	THR	823	-26.146	47.935	73.828	1.00	13.78
ATOM	6398	O	THR	823	-27.259	47.414	73.854	1.00	16.01
ATOM	6399	N	SER	824	-25.233	47.751	74.777	1.00	15.54
ATOM	6400	CA	SER	824	-25.506	46.931	75.950	1.00	21.95
ATOM	6401	CB	SER	824	-24.281	46.109	76.340	1.00	20.10
ATOM	6402	OG	SER	824	-23.129	46.926	76.363	1.00	36.41
ATOM	6403	C	SER	824	-25.920	47.812	77.116	1.00	23.42
ATOM	6404	O	SER	824	-25.238	48.789	77.446	1.00	28.01
ATOM	6405	N	ASP	825	-27.043	47.463	77.734	1.00	21.53
ATOM	6406	CA	ASP	825	-27.564	48.205	78.872	1.00	17.89
ATOM	6407	CB	ASP	825	-28.983	47.726	79.227	1.00	19.00
ATOM	6408	CG	ASP	825	-29.043	46.252	79.637	1.00	21.07
ATOM	6409	OD1	ASP	825	-28.083	45.497	79.380	1.00	31.14
ATOM	6410	OD2	ASP	825	-30.071	45.836	80.213	1.00	22.67
ATOM	6411	C	ASP	825	-26.641	48.156	80.093	1.00	21.53
ATOM	6412	O	ASP	825	-26.947	48.764	81.124	1.00	26.40
ATOM	6413	N	MET	826	-25.525	47.433	79.971	1.00	19.25
ATOM	6414	CA	MET	826	-24.525	47.295	81.041	1.00	18.62
ATOM	6415	CB	MET	826	-24.660	45.948	81.761	1.00	14.23
ATOM	6416	CG	MET	826	-26.023	45.672	82.359	1.00	21.85
ATOM	6417	SD	MET	826	-26.138	44.085	83.202	1.00	24.20
ATOM	6418	CE	MET	826	-25.589	44.552	84.824	1.00	27.44
ATOM	6419	C	MET	826	-23.154	47.352	80.396	1.00	20.37
ATOM	6420	O	MET	826	-22.981	46.880	79.275	1.00	27.10
ATOM	6421	N	GLU	827	-22.169	47.885	81.110	1.00	24.15
ATOM	6422	CA	GLU	827	-20.812	47.979	80.574	1.00	28.69
ATOM	6423	CB	GLU	827	-19.916	48.766	81.526	1.00	41.62
ATOM	6424	CG	GLU	827	-18.455	48.828	81.093	1.00	54.16
ATOM	6425	CD	GLU	827	-17.617	49.695	82.010	1.00	62.77
ATOM	6426	OE1	GLU	827	-16.885	50.567	81.494	1.00	66.08
ATOM	6427	OE2	GLU	827	-17.693	49.515	83.245	1.00	63.52
ATOM	6428	C	GLU	827	-20.200	46.608	80.347	1.00	28.34
ATOM	6429	O	GLU	827	-20.249	45.755	81.235	1.00	24.28
ATOM	6430	N	ILE	828	-19.614	46.408	79.168	1.00	25.06
ATOM	6431	CA	ILE	828	-18.984	45.128	78.851	1.00	24.90
ATOM	6432	CB	ILE	828	-19.071	44.764	77.348	1.00	20.59
ATOM	6433	CG2	ILE	828	-20.535	44.667	76.935	1.00	8.52
ATOM	6434	CG1	ILE	828	-18.250	45.754	76.501	1.00	33.59
ATOM	6435	CD1	ILE	828	-18.039	45.346	75.022	1.00	31.62
ATOM	6436	C	ILE	828	-17.531	45.067	79.308	1.00	27.82

ATOM	6437	O	ILE	828	-16.753	45.998	79.077	1.00	22.05
ATOM	6438	N	ASN	829	-17.197	43.948	79.955	1.00	32.86
ATOM	6439	CA	ASN	829	-15.869	43.671	80.494	1.00	33.14
ATOM	6440	CB	ASN	829	-14.847	43.603	79.365	1.00	32.62
ATOM	6441	CG	ASN	829	-13.522	43.067	79.817	1.00	34.69
ATOM	6442	OD1	ASN	829	-13.454	42.138	80.623	1.00	28.29
ATOM	6443	ND2	ASN	829	-12.448	43.651	79.300	1.00	38.19
ATOM	6444	C	ASN	829	-15.499	44.742	81.521	1.00	35.23
ATOM	6445	O	ASN	829	-14.511	45.464	81.361	1.00	38.47
ATOM	6446	N	PRO	830	-16.291	44.840	82.603	1.00	34.12
ATOM	6447	CD	PRO	830	-17.408	43.918	82.873	1.00	39.46
ATOM	6448	CA	PRO	830	-16.147	45.784	83.712	1.00	35.98
ATOM	6449	CB	PRO	830	-17.412	45.531	84.532	1.00	36.77
ATOM	6450	CG	PRO	830	-17.619	44.091	84.363	1.00	38.35
ATOM	6451	C	PRO	830	-14.901	45.636	84.575	1.00	36.03
ATOM	6452	O	PRO	830	-14.672	46.448	85.469	1.00	37.56
ATOM	6453	N	LEU	831	-14.126	44.580	84.348	1.00	36.65
ATOM	6454	CA	LEU	831	-12.903	44.355	85.116	1.00	32.11
ATOM	6455	CB	LEU	831	-12.905	42.959	85.724	1.00	21.33
ATOM	6456	CG	LEU	831	-14.273	42.506	86.212	1.00	26.70
ATOM	6457	CD1	LEU	831	-14.171	41.129	86.832	1.00	37.75
ATOM	6458	CD2	LEU	831	-14.816	43.502	87.208	1.00	32.23
ATOM	6459	C	LEU	831	-11.726	44.493	84.172	1.00	33.12
ATOM	6460	O	LEU	831	-10.592	44.185	84.530	1.00	32.28
ATOM	6461	N	ARG	832	-12.020	44.940	82.955	1.00	40.41
ATOM	6462	CA	ARG	832	-11.016	45.122	81.916	1.00	52.70
ATOM	6463	CB	ARG	832	-10.216	46.403	82.162	1.00	61.48
ATOM	6464	CG	ARG	832	-11.060	47.678	82.141	1.00	74.59
ATOM	6465	CD	ARG	832	-11.806	47.869	80.814	1.00	81.84
ATOM	6466	NE	ARG	832	-12.384	49.208	80.706	1.00	87.38
ATOM	6467	CZ	ARG	832	-13.566	49.569	81.204	1.00	90.63
ATOM	6468	NH1	ARG	832	-14.322	48.688	81.846	1.00	93.05
ATOM	6469	NH2	ARG	832	-13.975	50.827	81.088	1.00	92.49
ATOM	6470	C	ARG	832	-10.095	43.904	81.774	1.00	51.58
ATOM	6471	O	ARG	832	-8.875	44.030	81.600	1.00	56.05
ATOM	6472	N	ILE	833	-10.705	42.727	81.876	1.00	42.68
ATOM	6473	CA	ILE	833	-10.006	41.458	81.754	1.00	32.61
ATOM	6474	CB	ILE	833	-10.963	40.309	82.076	1.00	23.85
ATOM	6475	CG2	ILE	833	-10.310	38.979	81.812	1.00	21.97
ATOM	6476	CG1	ILE	833	-11.403	40.411	83.529	1.00	23.80
ATOM	6477	CD1	ILE	833	-12.130	39.199	84.035	1.00	28.07
ATOM	6478	C	ILE	833	-9.501	41.318	80.329	1.00	35.90
ATOM	6479	O	ILE	833	-10.210	40.826	79.457	1.00	38.32
ATOM	6480	N	LYS	834	-8.282	41.788	80.082	1.00	43.75
ATOM	6481	CA	LYS	834	-7.726	41.705	78.740	1.00	52.21
ATOM	6482	CB	LYS	834	-6.750	42.848	78.470	1.00	59.34
ATOM	6483	CG	LYS	834	-7.376	44.227	78.617	1.00	66.25
ATOM	6484	CD	LYS	834	-8.507	44.453	77.625	1.00	69.29
ATOM	6485	CE	LYS	834	-9.456	45.546	78.117	1.00	72.11
ATOM	6486	NZ	LYS	834	-8.772	46.842	78.411	1.00	72.86
ATOM	6487	C	LYS	834	-7.068	40.370	78.487	1.00	55.67
ATOM	6488	O	LYS	834	-6.456	39.788	79.379	1.00	54.82
ATOM	6489	N	ILE	835	-7.202	39.918	77.245	1.00	64.38
ATOM	6490	CA	ILE	835	-6.686	38.642	76.747	1.00	73.15
ATOM	6491	CB	ILE	835	-7.158	38.414	75.278	1.00	72.20
ATOM	6492	CG2	ILE	835	-6.658	39.543	74.375	1.00	70.15
ATOM	6493	CG1	ILE	835	-6.683	37.060	74.756	1.00	71.12

ATOM	6494	CD1	ILE	835	-7.083	36.783	73.335	1.00	75.04
ATOM	6495	C	ILE	835	-5.170	38.424	76.799	1.00	82.68
ATOM	6496	O	ILE	835	-4.383	39.377	76.721	1.00	86.04
ATOM	6497	N	SER	836	-4.792	37.152	76.947	1.00	90.88
ATOM	6498	CA	SER	836	-3.399	36.682	76.971	1.00	96.29
ATOM	6499	CB	SER	836	-2.725	36.954	75.610	1.00	100.00
ATOM	6500	OG	SER	836	-3.390	36.293	74.541	1.00	100.00
ATOM	6501	C	SER	836	-2.461	37.136	78.101	1.00	98.59
ATOM	6502	O	SER	836	-2.790	38.013	78.910	1.00	98.80
ATOM	6503	N	SER	837	-1.286	36.506	78.124	1.00	99.47
ATOM	6504	CA	SER	837	-0.225	36.778	79.091	1.00	98.65
ATOM	6505	CB	SER	837	-0.634	36.344	80.507	1.00	98.38
ATOM	6506	OG	SER	837	-1.522	37.281	81.096	1.00	96.25
ATOM	6507	C	SER	837	1.062	36.062	78.656	1.00	99.04
ATOM	6508	O	SER	837	1.511	36.227	77.519	1.00	97.94
ATOM	6509	N	LEU	838	1.619	35.244	79.551	1.00	99.23
ATOM	6510	CA	LEU	838	2.859	34.500	79.305	1.00	98.04
ATOM	6511	CB	LEU	838	3.416	33.963	80.627	1.00	95.55
ATOM	6512	CG	LEU	838	3.614	34.986	81.747	1.00	94.45
ATOM	6513	CD1	LEU	838	4.010	34.272	83.032	1.00	94.12
ATOM	6514	CD2	LEU	838	4.662	36.019	81.339	1.00	93.25
ATOM	6515	C	LEU	838	2.704	33.345	78.313	1.00	97.75
ATOM	6516	O	LEU	838	3.572	32.470	78.224	1.00	95.58
ATOM	6517	N	ASP	868	-34.570	26.999	86.113	1.00	93.62
ATOM	6518	CA	ASP	868	-33.935	27.201	87.411	1.00	92.58
ATOM	6519	CB	ASP	868	-35.003	27.462	88.486	1.00	97.88
ATOM	6520	CG	ASP	868	-34.452	28.200	89.703	1.00	100.00
ATOM	6521	OD1	ASP	868	-34.408	29.453	89.679	1.00	99.47
ATOM	6522	OD2	ASP	868	-34.072	27.525	90.690	1.00	100.00
ATOM	6523	C	ASP	868	-33.074	25.989	87.787	1.00	90.72
ATOM	6524	O	ASP	868	-31.977	26.144	88.338	1.00	86.18
ATOM	6525	N	ILE	869	-33.578	24.792	87.486	1.00	89.51
ATOM	6526	CA	ILE	869	-32.858	23.547	87.768	1.00	91.82
ATOM	6527	CB	ILE	869	-33.813	22.300	87.757	1.00	91.25
ATOM	6528	CG2	ILE	869	-34.600	22.211	86.437	1.00	88.21
ATOM	6529	CG1	ILE	869	-33.009	21.018	88.017	1.00	89.57
ATOM	6530	CD1	ILE	869	-33.831	19.755	88.004	1.00	90.75
ATOM	6531	C	ILE	869	-31.726	23.350	86.754	1.00	87.31
ATOM	6532	O	ILE	869	-30.558	23.214	87.124	1.00	88.49
ATOM	6533	N	HIS	870	-32.087	23.369	85.474	1.00	79.70
ATOM	6534	CA	HIS	870	-31.138	23.193	84.388	1.00	73.60
ATOM	6535	CB	HIS	870	-31.685	22.160	83.399	1.00	76.04
ATOM	6536	CG	HIS	870	-31.019	20.827	83.488	1.00	82.05
ATOM	6537	CD2	HIS	870	-30.852	19.976	84.529	1.00	84.12
ATOM	6538	ND1	HIS	870	-30.421	20.222	82.401	1.00	82.84
ATOM	6539	CE1	HIS	870	-29.920	19.059	82.769	1.00	85.08
ATOM	6540	NE2	HIS	870	-30.167	18.886	84.056	1.00	86.32
ATOM	6541	C	HIS	870	-30.894	24.510	83.659	1.00	67.17
ATOM	6542	O	HIS	870	-29.932	25.233	83.931	1.00	64.94
ATOM	6543	N	THR	871	-31.807	24.811	82.745	1.00	56.19
ATOM	6544	CA	THR	871	-31.759	26.000	81.920	1.00	47.94
ATOM	6545	CB	THR	871	-32.938	25.998	80.931	1.00	48.53
ATOM	6546	OG1	THR	871	-32.960	27.233	80.212	1.00	58.00
ATOM	6547	CG2	THR	871	-34.258	25.798	81.659	1.00	48.64
ATOM	6548	C	THR	871	-31.720	27.324	82.673	1.00	39.90
ATOM	6549	O	THR	871	-32.445	27.525	83.646	1.00	37.89
ATOM	6550	N	LEU	872	-30.858	28.220	82.202	1.00	35.76

ATOM	6551	CA	LEU	872	-30.701	29.545	82.787	1.00	30.24
ATOM	6552	CB	LEU	872	-29.324	29.685	83.447	1.00	18.21
ATOM	6553	CG	LEU	872	-29.252	28.924	84.776	1.00	9.17
ATOM	6554	CD1	LEU	872	-27.930	29.121	85.470	1.00	2.05
ATOM	6555	CD2	LEU	872	-30.361	29.406	85.665	1.00	2.00
ATOM	6556	C	LEU	872	-30.940	30.648	81.756	1.00	36.77
ATOM	6557	O	LEU	872	-30.006	31.137	81.108	1.00	33.38
ATOM	6558	N	GLY	873	-32.221	30.993	81.589	1.00	45.52
ATOM	6559	CA	GLY	873	-32.633	32.035	80.661	1.00	51.62
ATOM	6560	C	GLY	873	-32.776	33.362	81.386	1.00	58.34
ATOM	6561	O	GLY	873	-32.707	33.388	82.616	1.00	57.46
ATOM	6562	N	CYS	874	-32.986	34.453	80.642	1.00	64.33
ATOM	6563	CA	CYS	874	-33.119	35.788	81.237	1.00	63.58
ATOM	6564	C	CYS	874	-34.326	35.973	82.153	1.00	64.86
ATOM	6565	O	CYS	874	-34.368	36.920	82.945	1.00	66.68
ATOM	6566	CB	CYS	874	-33.092	36.882	80.166	1.00	62.18
ATOM	6567	SG	CYS	874	-31.456	37.666	79.985	1.00	70.54
ATOM	6568	N	GLY	875	-35.302	35.073	82.037	1.00	68.04
ATOM	6569	CA	GLY	875	-36.486	35.134	82.881	1.00	69.26
ATOM	6570	C	GLY	875	-36.199	34.534	84.251	1.00	68.93
ATOM	6571	O	GLY	875	-36.887	34.828	85.235	1.00	65.69
ATOM	6572	N	VAL	876	-35.162	33.693	84.299	1.00	68.20
ATOM	6573	CA	VAL	876	-34.712	33.014	85.515	1.00	62.15
ATOM	6574	CB	VAL	876	-34.432	31.512	85.239	1.00	58.84
ATOM	6575	CG1	VAL	876	-34.237	30.766	86.534	1.00	54.16
ATOM	6576	CG2	VAL	876	-35.557	30.890	84.419	1.00	61.22
ATOM	6577	C	VAL	876	-33.407	33.641	86.028	1.00	57.71
ATOM	6578	O	VAL	876	-32.967	33.343	87.138	1.00	54.84
ATOM	6579	N	ALA	877	-32.816	34.528	85.227	1.00	54.46
ATOM	6580	CA	ALA	877	-31.555	35.182	85.575	1.00	50.62
ATOM	6581	CB	ALA	877	-30.417	34.484	84.845	1.00	45.82
ATOM	6582	C	ALA	877	-31.500	36.686	85.289	1.00	47.61
ATOM	6583	O	ALA	877	-32.346	37.231	84.577	1.00	48.74
ATOM	6584	N	GLN	878	-30.494	37.346	85.864	1.00	45.33
ATOM	6585	CA	GLN	878	-30.272	38.776	85.660	1.00	47.53
ATOM	6586	CB	GLN	878	-29.158	39.308	86.571	1.00	59.36
ATOM	6587	CG	GLN	878	-29.540	39.463	88.055	1.00	76.40
ATOM	6588	CD	GLN	878	-29.285	38.210	88.906	1.00	82.62
ATOM	6589	OE1	GLN	878	-28.283	38.129	89.630	1.00	82.71
ATOM	6590	NE2	GLN	878	-30.211	37.247	88.849	1.00	82.89
ATOM	6591	C	GLN	878	-29.869	38.951	84.204	1.00	45.90
ATOM	6592	O	GLN	878	-28.911	38.332	83.737	1.00	46.64
ATOM	6593	N	CYS	879	-30.586	39.826	83.509	1.00	42.73
ATOM	6594	CA	CYS	879	-30.364	40.070	82.090	1.00	37.50
ATOM	6595	C	CYS	879	-29.391	41.165	81.659	1.00	26.95
ATOM	6596	O	CYS	879	-29.453	42.299	82.131	1.00	27.85
ATOM	6597	CB	CYS	879	-31.710	40.314	81.413	1.00	43.60
ATOM	6598	SG	CYS	879	-31.798	39.666	79.723	1.00	61.25
ATOM	6599	N	LEU	880	-28.452	40.786	80.803	1.00	16.31
ATOM	6600	CA	LEU	880	-27.512	41.727	80.220	1.00	13.72
ATOM	6601	CB	LEU	880	-26.109	41.122	80.092	1.00	15.11
ATOM	6602	CG	LEU	880	-24.888	41.951	79.632	1.00	2.00
ATOM	6603	CD1	LEU	880	-25.295	43.134	78.772	1.00	8.59
ATOM	6604	CD2	LEU	880	-24.108	42.436	80.825	1.00	2.00
ATOM	6605	C	LEU	880	-28.171	41.778	78.848	1.00	16.51
ATOM	6606	O	LEU	880	-28.223	40.774	78.141	1.00	16.60
ATOM	6607	N	LYS	881	-28.778	42.914	78.531	1.00	18.00

ATOM	6608	CA	LYS	881	-29.464	43.072	77.270	1.00	10.19
ATOM	6609	CB	LYS	881	-30.749	43.872	77.482	1.00	5.89
ATOM	6610	CG	LYS	881	-31.868	43.523	76.497	1.00	19.83
ATOM	6611	CD	LYS	881	-33.128	44.394	76.677	1.00	22.25
ATOM	6612	CE	LYS	881	-33.959	44.025	77.906	1.00	8.95
ATOM	6613	NZ	LYS	881	-33.227	44.203	79.185	1.00	13.68
ATOM	6614	C	LYS	881	-28.556	43.787	76.296	1.00	8.84
ATOM	6615	O	LYS	881	-27.610	44.446	76.696	1.00	8.22
ATOM	6616	N	ILE	882	-28.791	43.562	75.010	1.00	13.52
ATOM	6617	CA	ILE	882	-28.037	44.212	73.948	1.00	7.47
ATOM	6618	CB	ILE	882	-26.912	43.328	73.388	1.00	6.25
ATOM	6619	CG2	ILE	882	-26.249	44.024	72.207	1.00	8.92
ATOM	6620	CG1	ILE	882	-25.886	43.023	74.473	1.00	2.25
ATOM	6621	CD1	ILE	882	-24.588	42.500	73.943	1.00	2.00
ATOM	6622	C	ILE	882	-29.033	44.525	72.833	1.00	13.30
ATOM	6623	O	ILE	882	-29.640	43.625	72.233	1.00	11.88
ATOM	6624	N	VAL	883	-29.250	45.813	72.612	1.00	9.52
ATOM	6625	CA	VAL	883	-30.174	46.267	71.593	1.00	2.99
ATOM	6626	CB	VAL	883	-31.102	47.357	72.142	1.00	7.34
ATOM	6627	CG1	VAL	883	-30.286	48.475	72.758	1.00	5.22
ATOM	6628	CG2	VAL	883	-32.012	47.883	71.040	1.00	6.44
ATOM	6629	C	VAL	883	-29.378	46.779	70.412	1.00	4.11
ATOM	6630	O	VAL	883	-28.449	47.575	70.559	1.00	2.86
ATOM	6631	N	CYS	884	-29.755	46.306	69.237	1.00	5.95
ATOM	6632	CA	CYS	884	-29.072	46.675	68.016	1.00	8.47
ATOM	6633	C	CYS	884	-29.972	47.350	67.014	1.00	2.27
ATOM	6634	O	CYS	884	-31.109	46.932	66.777	1.00	2.11
ATOM	6635	CB	CYS	884	-28.444	45.444	67.370	1.00	17.79
ATOM	6636	SG	CYS	884	-27.180	44.632	68.397	1.00	31.27
ATOM	6637	N	GLN	885	-29.404	48.367	66.384	1.00	10.24
ATOM	6638	CA	GLN	885	-30.072	49.164	65.372	1.00	12.46
ATOM	6639	CB	GLN	885	-29.694	50.656	65.561	1.00	12.21
ATOM	6640	CG	GLN	885	-30.038	51.299	66.959	1.00	28.13
ATOM	6641	CD	GLN	885	-28.973	51.078	68.074	1.00	36.97
ATOM	6642	OE1	GLN	885	-28.117	51.937	68.307	1.00	40.77
ATOM	6643	NE2	GLN	885	-29.065	49.954	68.786	1.00	39.59
ATOM	6644	C	GLN	885	-29.611	48.643	63.998	1.00	8.72
ATOM	6645	O	GLN	885	-28.401	48.612	63.720	1.00	8.10
ATOM	6646	N	VAL	886	-30.556	48.168	63.181	1.00	5.57
ATOM	6647	CA	VAL	886	-30.238	47.656	61.835	1.00	9.87
ATOM	6648	CB	VAL	886	-30.729	46.203	61.646	1.00	4.46
ATOM	6649	CG1	VAL	886	-30.400	45.694	60.246	1.00	4.56
ATOM	6650	CG2	VAL	886	-30.099	45.304	62.678	1.00	8.78
ATOM	6651	C	VAL	886	-30.854	48.544	60.739	1.00	15.45
ATOM	6652	O	VAL	886	-31.803	49.288	61.002	1.00	16.11
ATOM	6653	N	GLY	887	-30.318	48.471	59.519	1.00	12.79
ATOM	6654	CA	GLY	887	-30.859	49.287	58.454	1.00	17.60
ATOM	6655	C	GLY	887	-30.412	48.935	57.054	1.00	26.67
ATOM	6656	O	GLY	887	-29.273	49.171	56.669	1.00	39.22
ATOM	6657	N	ARG	888	-31.364	48.468	56.262	1.00	31.48
ATOM	6658	CA	ARG	888	-31.163	48.065	54.868	1.00	32.49
ATOM	6659	CB	ARG	888	-30.761	49.207	53.929	1.00	28.56
ATOM	6660	CG	ARG	888	-31.134	48.865	52.466	1.00	37.37
ATOM	6661	CD	ARG	888	-30.558	49.809	51.406	1.00	51.56
ATOM	6662	NE	ARG	888	-29.110	49.647	51.223	1.00	62.15
ATOM	6663	CZ	ARG	888	-28.491	49.605	50.041	1.00	61.86
ATOM	6664	NH1	ARG	888	-29.181	49.713	48.910	1.00	62.10

ATOM	6665	NH2	ARG	888	-27.176	49.445	49.987	1.00	61.30
ATOM	6666	C	ARG	888	-30.318	46.849	54.573	1.00	27.83
ATOM	6667	O	ARG	888	-29.116	46.935	54.292	1.00	30.33
ATOM	6668	N	LEU	889	-30.991	45.712	54.642	1.00	25.25
ATOM	6669	CA	LEU	889	-30.400	44.438	54.330	1.00	26.12
ATOM	6670	CB	LEU	889	-30.630	43.435	55.460	1.00	22.10
ATOM	6671	CG	LEU	889	-29.762	43.662	56.699	1.00	21.31
ATOM	6672	CD1	LEU	889	-30.045	42.606	57.756	1.00	20.99
ATOM	6673	CD2	LEU	889	-28.304	43.625	56.298	1.00	12.00
ATOM	6674	C	LEU	889	-31.187	44.051	53.101	1.00	26.89
ATOM	6675	O	LEU	889	-32.357	43.677	53.196	1.00	26.12
ATOM	6676	N	ASP	890	-30.575	44.253	51.939	1.00	26.39
ATOM	6677	CA	ASP	890	-31.217	43.929	50.677	1.00	27.40
ATOM	6678	CB	ASP	890	-30.440	44.540	49.510	1.00	25.23
ATOM	6679	CG	ASP	890	-30.496	46.056	49.493	1.00	23.71
ATOM	6680	OD1	ASP	890	-31.575	46.644	49.726	1.00	19.84
ATOM	6681	OD2	ASP	890	-29.444	46.665	49.232	1.00	34.63
ATOM	6682	C	ASP	890	-31.369	42.431	50.464	1.00	23.10
ATOM	6683	O	ASP	890	-31.118	41.642	51.360	1.00	18.45
ATOM	6684	N	ARG	891	-31.783	42.075	49.254	1.00	35.32
ATOM	6685	CA	ARG	891	-32.002	40.704	48.799	1.00	40.74
ATOM	6686	CB	ARG	891	-31.453	40.556	47.382	1.00	46.89
ATOM	6687	CG	ARG	891	-31.874	39.283	46.687	1.00	61.42
ATOM	6688	CD	ARG	891	-33.391	39.130	46.662	1.00	71.99
ATOM	6689	NE	ARG	891	-33.799	37.980	45.856	1.00	84.46
ATOM	6690	CZ	ARG	891	-34.065	38.027	44.551	1.00	90.99
ATOM	6691	NH1	ARG	891	-33.979	39.175	43.880	1.00	94.20
ATOM	6692	NH2	ARG	891	-34.381	36.912	43.903	1.00	92.66
ATOM	6693	C	ARG	891	-31.464	39.583	49.689	1.00	41.64
ATOM	6694	O	ARG	891	-32.242	38.902	50.359	1.00	43.71
ATOM	6695	N	GLY	892	-30.149	39.366	49.659	1.00	34.48
ATOM	6696	CA	GLY	892	-29.545	38.331	50.485	1.00	28.25
ATOM	6697	C	GLY	892	-28.307	38.916	51.132	1.00	29.20
ATOM	6698	O	GLY	892	-27.184	38.599	50.727	1.00	25.92
ATOM	6699	N	LYS	893	-28.499	39.710	52.185	1.00	32.48
ATOM	6700	CA	LYS	893	-27.372	40.377	52.814	1.00	37.03
ATOM	6701	CB	LYS	893	-27.589	41.885	52.749	1.00	43.05
ATOM	6702	CG	LYS	893	-27.856	42.385	51.339	1.00	52.16
ATOM	6703	CD	LYS	893	-26.719	42.061	50.368	1.00	58.39
ATOM	6704	CE	LYS	893	-25.497	42.954	50.590	1.00	69.15
ATOM	6705	NZ	LYS	893	-24.504	42.877	49.469	1.00	71.95
ATOM	6706	C	LYS	893	-26.822	39.976	54.188	1.00	37.30
ATOM	6707	O	LYS	893	-25.594	39.985	54.375	1.00	47.10
ATOM	6708	N	SER	894	-27.681	39.664	55.155	1.00	24.54
ATOM	6709	CA	SER	894	-27.196	39.278	56.490	1.00	13.37
ATOM	6710	CB	SER	894	-26.220	38.090	56.409	1.00	15.69
ATOM	6711	OG	SER	894	-26.880	36.843	56.354	1.00	15.28
ATOM	6712	C	SER	894	-26.512	40.388	57.295	1.00	7.63
ATOM	6713	O	SER	894	-25.992	41.354	56.749	1.00	9.62
ATOM	6714	N	ALA	895	-26.466	40.172	58.608	1.00	3.70
ATOM	6715	CA	ALA	895	-25.854	41.058	59.592	1.00	2.00
ATOM	6716	CB	ALA	895	-26.852	42.121	60.011	1.00	2.00
ATOM	6717	C	ALA	895	-25.539	40.109	60.762	1.00	6.04
ATOM	6718	O	ALA	895	-26.402	39.326	61.168	1.00	10.32
ATOM	6719	N	ILE	896	-24.324	40.157	61.306	1.00	2.00
ATOM	6720	CA	ILE	896	-23.986	39.217	62.373	1.00	7.76
ATOM	6721	CB	ILE	896	-23.093	38.042	61.850	1.00	15.42

ATOM	6722	CG2	ILE	896	-23.338	36.775	62.675	1.00	21.36
ATOM	6723	CG1	ILE	896	-23.372	37.733	60.385	1.00	6.08
ATOM	6724	CD1	ILE	896	-22.656	38.644	59.457	1.00	8.64
ATOM	6725	C	ILE	896	-23.315	39.733	63.646	1.00	10.73
ATOM	6726	O	ILE	896	-22.168	40.187	63.623	1.00	16.14
ATOM	6727	N	LEU	897	-23.995	39.532	64.771	1.00	13.18
ATOM	6728	CA	LEU	897	-23.484	39.925	66.079	1.00	9.81
ATOM	6729	CB	LEU	897	-24.643	40.101	67.067	1.00	2.08
ATOM	6730	CG	LEU	897	-24.481	41.072	68.239	1.00	2.00
ATOM	6731	CD1	LEU	897	-25.292	40.569	69.401	1.00	2.00
ATOM	6732	CD2	LEU	897	-23.049	41.227	68.660	1.00	2.00
ATOM	6733	C	LEU	897	-22.584	38.790	66.571	1.00	7.89
ATOM	6734	O	LEU	897	-22.990	37.624	66.567	1.00	13.70
ATOM	6735	N	TYR	898	-21.372	39.137	66.996	1.00	6.26
ATOM	6736	CA	TYR	898	-20.411	38.156	67.500	1.00	7.75
ATOM	6737	CB	TYR	898	-19.090	38.240	66.725	1.00	15.77
ATOM	6738	CG	TYR	898	-19.180	37.945	65.245	1.00	24.47
ATOM	6739	CD1	TYR	898	-18.425	38.676	64.332	1.00	35.04
ATOM	6740	CE1	TYR	898	-18.490	38.415	62.969	1.00	37.40
ATOM	6741	CD2	TYR	898	-20.007	36.940	64.755	1.00	26.27
ATOM	6742	CE2	TYR	898	-20.078	36.670	63.395	1.00	32.73
ATOM	6743	CZ	TYR	898	-19.318	37.413	62.510	1.00	35.21
ATOM	6744	OH	TYR	898	-19.378	37.159	61.161	1.00	39.59
ATOM	6745	C	TYR	898	-20.117	38.375	68.980	1.00	2.94
ATOM	6746	O	TYR	898	-19.227	39.145	69.329	1.00	2.00
ATOM	6747	N	VAL	899	-20.830	37.660	69.847	1.00	10.27
ATOM	6748	CA	VAL	899	-20.640	37.805	71.293	1.00	7.82
ATOM	6749	CB	VAL	899	-21.889	37.423	72.097	1.00	3.41
ATOM	6750	CG1	VAL	899	-21.854	38.132	73.450	1.00	6.80
ATOM	6751	CG2	VAL	899	-23.170	37.692	71.312	1.00	2.51
ATOM	6752	C	VAL	899	-19.555	36.903	71.822	1.00	9.19
ATOM	6753	O	VAL	899	-19.680	35.686	71.733	1.00	18.99
ATOM	6754	N	LYS	900	-18.532	37.492	72.434	1.00	8.51
ATOM	6755	CA	LYS	900	-17.437	36.717	73.001	1.00	12.63
ATOM	6756	CB	LYS	900	-16.104	37.112	72.368	1.00	10.08
ATOM	6757	CG	LYS	900	-14.904	36.517	73.081	1.00	17.12
ATOM	6758	CD	LYS	900	-13.612	36.850	72.387	1.00	21.86
ATOM	6759	CE	LYS	900	-12.431	36.572	73.285	1.00	20.57
ATOM	6760	NZ	LYS	900	-11.148	36.873	72.586	1.00	33.02
ATOM	6761	C	LYS	900	-17.368	36.837	74.526	1.00	19.33
ATOM	6762	O	LYS	900	-16.963	37.874	75.062	1.00	20.53
ATOM	6763	N	SER	901	-17.745	35.750	75.208	1.00	20.81
ATOM	6764	CA	SER	901	-17.753	35.687	76.671	1.00	19.23
ATOM	6765	CB	SER	901	-19.175	35.443	77.173	1.00	10.67
ATOM	6766	OG	SER	901	-19.690	34.251	76.621	1.00	8.02
ATOM	6767	C	SER	901	-16.812	34.615	77.239	1.00	17.88
ATOM	6768	O	SER	901	-16.057	33.990	76.495	1.00	15.74
ATOM	6769	N	LEU	902	-16.896	34.402	78.558	1.00	23.02
ATOM	6770	CA	LEU	902	-16.069	33.436	79.308	1.00	17.28
ATOM	6771	CB	LEU	902	-14.973	34.164	80.069	1.00	7.38
ATOM	6772	CG	LEU	902	-13.559	34.317	79.549	1.00	9.45
ATOM	6773	CD1	LEU	902	-13.487	34.280	78.042	1.00	10.24
ATOM	6774	CD2	LEU	902	-13.030	35.619	80.101	1.00	8.83
ATOM	6775	C	LEU	902	-16.886	32.726	80.363	1.00	18.78
ATOM	6776	O	LEU	902	-17.518	33.380	81.198	1.00	12.41
ATOM	6777	N	LEU	903	-16.822	31.398	80.386	1.00	21.85
ATOM	6778	CA	LEU	903	-17.577	30.663	81.394	1.00	25.92

ATOM	6779	CB	LEU	903	-17.623	29.166	81.067	1.00	18.27
ATOM	6780	CG	LEU	903	-18.610	28.285	81.850	1.00	18.63
ATOM	6781	CD1	LEU	903	-17.915	27.635	83.021	1.00	24.35
ATOM	6782	CD2	LEU	903	-19.825	29.077	82.326	1.00	18.58
ATOM	6783	C	LEU	903	-16.868	30.950	82.710	1.00	31.20
ATOM	6784	O	LEU	903	-15.666	30.719	82.833	1.00	34.36
ATOM	6785	N	TRP	904	-17.602	31.510	83.669	1.00	34.12
ATOM	6786	CA	TRP	904	-17.003	31.868	84.942	1.00	38.28
ATOM	6787	CB	TRP	904	-17.946	32.721	85.784	1.00	38.47
ATOM	6788	CG	TRP	904	-17.254	33.995	86.158	1.00	44.87
ATOM	6789	CD2	TRP	904	-17.044	34.501	87.473	1.00	44.30
ATOM	6790	CE2	TRP	904	-16.211	35.642	87.356	1.00	43.43
ATOM	6791	CE3	TRP	904	-17.472	34.098	88.744	1.00	48.06
ATOM	6792	CD1	TRP	904	-16.576	34.841	85.313	1.00	45.46
ATOM	6793	NE1	TRP	904	-15.942	35.827	86.028	1.00	39.27
ATOM	6794	CZ2	TRP	904	-15.801	36.383	88.462	1.00	51.12
ATOM	6795	CZ3	TRP	904	-17.063	34.836	89.846	1.00	58.81
ATOM	6796	CH2	TRP	904	-16.231	35.969	89.697	1.00	59.60
ATOM	6797	C	TRP	904	-16.409	30.735	85.752	1.00	44.55
ATOM	6798	O	TRP	904	-15.562	30.958	86.619	1.00	47.45
ATOM	6799	N	THR	905	-16.801	29.515	85.410	1.00	48.99
ATOM	6800	CA	THR	905	-16.318	28.310	86.078	1.00	48.85
ATOM	6801	CB	THR	905	-14.766	28.216	86.084	1.00	46.59
ATOM	6802	OG1	THR	905	-14.240	28.675	84.831	1.00	41.03
ATOM	6803	CG2	THR	905	-14.338	26.777	86.261	1.00	47.51
ATOM	6804	C	THR	905	-16.877	28.193	87.495	1.00	51.43
ATOM	6805	O	THR	905	-16.750	27.152	88.131	1.00	54.50
ATOM	6806	N	GLU	906	-17.503	29.258	87.990	1.00	54.39
ATOM	6807	CA	GLU	906	-18.121	29.213	89.312	1.00	54.27
ATOM	6808	CB	GLU	906	-18.233	30.605	89.921	1.00	57.92
ATOM	6809	CG	GLU	906	-17.009	30.972	90.741	1.00	58.97
ATOM	6810	CD	GLU	906	-15.717	30.631	90.028	1.00	58.54
ATOM	6811	OE1	GLU	906	-15.084	31.546	89.463	1.00	61.02
ATOM	6812	OE2	GLU	906	-15.336	29.444	90.017	1.00	62.84
ATOM	6813	C	GLU	906	-19.475	28.545	89.196	1.00	55.37
ATOM	6814	O	GLU	906	-20.321	28.651	90.084	1.00	49.85
ATOM	6815	N	THR	907	-19.656	27.848	88.070	1.00	56.40
ATOM	6816	CA	THR	907	-20.864	27.090	87.773	1.00	50.11
ATOM	6817	CB	THR	907	-21.034	26.831	86.204	1.00	38.85
ATOM	6818	OG1	THR	907	-20.390	27.871	85.448	1.00	19.79
ATOM	6819	CG2	THR	907	-22.517	26.844	85.808	1.00	24.76
ATOM	6820	C	THR	907	-20.616	25.781	88.550	1.00	54.70
ATOM	6821	O	THR	907	-21.009	24.693	88.125	1.00	58.89
ATOM	6822	N	PHE	908	-19.969	25.935	89.710	1.00	55.09
ATOM	6823	CA	PHE	908	-19.591	24.855	90.621	1.00	65.93
ATOM	6824	CB	PHE	908	-18.276	25.224	91.314	1.00	63.54
ATOM	6825	CG	PHE	908	-17.055	24.778	90.579	1.00	63.13
ATOM	6826	CD1	PHE	908	-17.087	23.656	89.760	1.00	61.43
ATOM	6827	CD2	PHE	908	-15.860	25.467	90.719	1.00	65.28
ATOM	6828	CE1	PHE	908	-15.943	23.223	89.092	1.00	57.15
ATOM	6829	CE2	PHE	908	-14.709	25.039	90.052	1.00	66.51
ATOM	6830	CZ	PHE	908	-14.753	23.913	89.237	1.00	59.52
ATOM	6831	C	PHE	908	-20.607	24.427	91.697	1.00	73.11
ATOM	6832	O	PHE	908	-21.810	24.293	91.430	1.00	73.08
ATOM	6833	N	MET	909	-20.075	24.189	92.903	1.00	78.03
ATOM	6834	CA	MET	909	-20.819	23.756	94.091	1.00	84.56
ATOM	6835	CB	MET	909	-22.107	24.580	94.285	1.00	81.33

ATOM	6836	CG	MET	909	-21.860	25.981	94.823	1.00	74.95
ATOM	6837	SD	MET	909	-20.858	25.940	96.331	1.00	71.45
ATOM	6838	CE	MET	909	-19.230	26.416	95.680	1.00	61.35
ATOM	6839	C	MET	909	-21.106	22.249	94.152	1.00	87.36
ATOM	6840	O	MET	909	-22.261	21.823	94.234	1.00	87.40
ATOM	6841	N	ASN	910	-20.037	21.451	94.167	1.00	92.83
ATOM	6842	CA	ASN	910	-20.145	19.986	94.218	1.00	98.57
ATOM	6843	CB	ASN	910	-19.017	19.336	93.392	1.00	100.00
ATOM	6844	CG	ASN	910	-17.620	19.736	93.871	1.00	100.00
ATOM	6845	OD1	ASN	910	-17.089	20.783	93.479	1.00	100.00
ATOM	6846	ND2	ASN	910	-17.015	18.891	94.704	1.00	98.50
ATOM	6847	C	ASN	910	-20.196	19.376	95.634	1.00	98.79
ATOM	6848	O	ASN	910	-20.103	18.151	95.802	1.00	95.79
ATOM	6849	N	LYS	911	-20.346	20.234	96.641	1.00	100.00
ATOM	6850	CA	LYS	911	-20.412	19.794	98.033	1.00	100.00
ATOM	6851	CB	LYS	911	-19.976	20.915	98.983	1.00	99.55
ATOM	6852	CG	LYS	911	-19.939	20.496	100.452	1.00	98.52
ATOM	6853	CD	LYS	911	-20.234	21.661	101.388	1.00	97.79
ATOM	6854	CE	LYS	911	-21.702	22.068	101.326	1.00	96.39
ATOM	6855	NZ	LYS	911	-22.037	23.184	102.260	1.00	97.99
ATOM	6856	C	LYS	911	-21.824	19.356	98.407	1.00	100.00
ATOM	6857	O	LYS	911	-22.061	18.186	98.724	1.00	99.89
ATOM	6858	N	GLU	912	-22.757	20.307	98.369	1.00	99.54
ATOM	6859	CA	GLU	912	-24.142	20.031	98.727	1.00	100.00
ATOM	6860	CB	GLU	912	-24.625	21.042	99.777	1.00	97.84
ATOM	6861	CG	GLU	912	-25.719	20.500	100.696	1.00	99.48
ATOM	6862	CD	GLU	912	-25.360	19.146	101.302	1.00	96.77
ATOM	6863	OE1	GLU	912	-24.327	19.057	101.999	1.00	96.65
ATOM	6864	OE2	GLU	912	-26.111	18.170	101.072	1.00	93.52
ATOM	6865	C	GLU	912	-25.118	19.969	97.545	1.00	100.00
ATOM	6866	O	GLU	912	-24.910	20.617	96.508	1.00	100.00
ATOM	6867	N	ASN	913	-26.169	19.158	97.721	1.00	100.00
ATOM	6868	CA	ASN	913	-27.232	18.943	96.731	1.00	98.87
ATOM	6869	CB	ASN	913	-27.998	20.259	96.476	1.00	99.07
ATOM	6870	CG	ASN	913	-29.304	20.052	95.710	1.00	100.00
ATOM	6871	OD1	ASN	913	-29.798	18.927	95.591	1.00	100.00
ATOM	6872	ND2	ASN	913	-29.860	21.139	95.178	1.00	99.69
ATOM	6873	C	ASN	913	-26.689	18.354	95.421	1.00	96.95
ATOM	6874	O	ASN	913	-25.686	17.629	95.418	1.00	96.82
ATOM	6875	N	GLN	914	-27.379	18.641	94.323	1.00	96.44
ATOM	6876	CA	GLN	914	-26.977	18.165	93.014	1.00	95.43
ATOM	6877	CB	GLN	914	-28.003	17.164	92.466	1.00	96.55
ATOM	6878	CG	GLN	914	-27.500	16.346	91.278	1.00	97.75
ATOM	6879	CD	GLN	914	-26.130	15.715	91.522	1.00	95.95
ATOM	6880	OE1	GLN	914	-25.832	15.246	92.624	1.00	95.02
ATOM	6881	NE2	GLN	914	-25.290	15.707	90.487	1.00	92.26
ATOM	6882	C	GLN	914	-26.800	19.360	92.077	1.00	92.36
ATOM	6883	O	GLN	914	-27.748	19.815	91.427	1.00	90.04
ATOM	6884	N	ASN	915	-25.573	19.882	92.068	1.00	89.72
ATOM	6885	CA	ASN	915	-25.181	21.025	91.249	1.00	83.86
ATOM	6886	CB	ASN	915	-23.786	21.519	91.671	1.00	81.74
ATOM	6887	CG	ASN	915	-22.700	20.440	91.538	1.00	75.52
ATOM	6888	OD1	ASN	915	-22.947	19.249	91.750	1.00	63.07
ATOM	6889	ND2	ASN	915	-21.493	20.864	91.181	1.00	72.54
ATOM	6890	C	ASN	915	-25.155	20.660	89.774	1.00	81.57
ATOM	6891	O	ASN	915	-25.810	21.295	88.949	1.00	76.64
ATOM	6892	N	HIS	916	-24.412	19.599	89.476	1.00	78.20

ATOM	6893	CA	HIS	916	-24.233	19.082	88.134	1.00	79.28
ATOM	6894	CB	HIS	916	-24.953	17.729	87.963	1.00	87.80
ATOM	6895	CG	HIS	916	-26.452	17.799	88.065	1.00	95.70
ATOM	6896	CD2	HIS	916	-27.410	16.976	87.570	1.00	97.76
ATOM	6897	ND1	HIS	916	-27.113	18.798	88.740	1.00	96.29
ATOM	6898	CE1	HIS	916	-28.420	18.592	88.659	1.00	98.58
ATOM	6899	NE2	HIS	916	-28.624	17.497	87.956	1.00	99.89
ATOM	6900	C	HIS	916	-24.494	20.038	86.960	1.00	75.50
ATOM	6901	O	HIS	916	-23.986	21.161	86.938	1.00	73.51
ATOM	6902	N	SER	917	-25.317	19.589	86.018	1.00	73.49
ATOM	6903	CA	SER	917	-25.658	20.312	84.798	1.00	69.07
ATOM	6904	CB	SER	917	-26.331	19.350	83.820	1.00	74.17
ATOM	6905	OG	SER	917	-27.507	18.798	84.387	1.00	77.24
ATOM	6906	C	SER	917	-26.487	21.593	84.869	1.00	60.37
ATOM	6907	O	SER	917	-27.382	21.740	85.698	1.00	61.03
ATOM	6908	N	TYR	918	-26.201	22.476	83.916	1.00	54.15
ATOM	6909	CA	TYR	918	-26.864	23.761	83.739	1.00	40.97
ATOM	6910	CB	TYR	918	-26.039	24.904	84.336	1.00	39.99
ATOM	6911	CG	TYR	918	-26.104	25.021	85.829	1.00	43.44
ATOM	6912	CD1	TYR	918	-27.294	25.361	86.470	1.00	44.93
ATOM	6913	CE1	TYR	918	-27.356	25.483	87.865	1.00	49.00
ATOM	6914	CD2	TYR	918	-24.972	24.801	86.611	1.00	50.65
ATOM	6915	CE2	TYR	918	-25.019	24.920	88.009	1.00	54.43
ATOM	6916	CZ	TYR	918	-26.214	25.262	88.627	1.00	49.98
ATOM	6917	OH	TYR	918	-26.257	25.398	89.996	1.00	49.55
ATOM	6918	C	TYR	918	-26.956	23.990	82.238	1.00	36.58
ATOM	6919	O	TYR	918	-26.170	23.445	81.466	1.00	33.35
ATOM	6920	N	SER	919	-27.913	24.805	81.826	1.00	35.05
ATOM	6921	CA	SER	919	-28.064	25.118	80.421	1.00	32.38
ATOM	6922	CB	SER	919	-29.279	24.420	79.848	1.00	26.99
ATOM	6923	OG	SER	919	-29.450	24.802	78.504	1.00	23.40
ATOM	6924	C	SER	919	-28.180	26.628	80.231	1.00	34.72
ATOM	6925	O	SER	919	-29.285	27.176	80.201	1.00	36.27
ATOM	6926	N	LEU	920	-27.019	27.280	80.126	1.00	27.77
ATOM	6927	CA	LEU	920	-26.891	28.723	79.937	1.00	18.29
ATOM	6928	CB	LEU	920	-25.430	29.111	80.048	1.00	19.26
ATOM	6929	CG	LEU	920	-24.705	28.380	81.167	1.00	19.51
ATOM	6930	CD1	LEU	920	-23.274	28.864	81.201	1.00	23.92
ATOM	6931	CD2	LEU	920	-25.407	28.610	82.499	1.00	18.92
ATOM	6932	C	LEU	920	-27.421	29.127	78.562	1.00	20.61
ATOM	6933	O	LEU	920	-26.742	28.960	77.541	1.00	18.86
ATOM	6934	N	LYS	921	-28.626	29.697	78.566	1.00	23.24
ATOM	6935	CA	LYS	921	-29.330	30.109	77.357	1.00	12.78
ATOM	6936	CB	LYS	921	-30.758	29.558	77.404	1.00	8.69
ATOM	6937	CG	LYS	921	-31.766	30.267	76.535	1.00	5.82
ATOM	6938	CD	LYS	921	-33.151	29.677	76.770	1.00	21.92
ATOM	6939	CE	LYS	921	-34.284	30.643	76.384	1.00	34.24
ATOM	6940	NZ	LYS	921	-34.465	31.768	77.366	1.00	39.29
ATOM	6941	C	LYS	921	-29.395	31.598	77.155	1.00	9.98
ATOM	6942	O	LYS	921	-29.697	32.345	78.087	1.00	12.75
ATOM	6943	N	SER	922	-29.102	32.016	75.927	1.00	6.54
ATOM	6944	CA	SER	922	-29.183	33.415	75.542	1.00	2.93
ATOM	6945	CB	SER	922	-27.870	33.899	74.977	1.00	2.00
ATOM	6946	OG	SER	922	-27.742	33.453	73.644	1.00	6.39
ATOM	6947	C	SER	922	-30.227	33.417	74.432	1.00	8.33
ATOM	6948	O	SER	922	-30.495	32.372	73.824	1.00	9.12
ATOM	6949	N	SER	923	-30.788	34.583	74.141	1.00	2.12

ATOM	6950	CA	SER	923	-31.812	34.681	73.114	1.00	6.13
ATOM	6951	CB	SER	923	-33.180	34.473	73.730	1.00	11.00
ATOM	6952	OG	SER	923	-34.175	34.960	72.843	1.00	30.76
ATOM	6953	C	SER	923	-31.816	36.005	72.379	1.00	12.65
ATOM	6954	O	SER	923	-31.459	37.042	72.944	1.00	21.93
ATOM	6955	N	ALA	924	-32.329	35.985	71.153	1.00	5.19
ATOM	6956	CA	ALA	924	-32.375	37.195	70.354	1.00	3.23
ATOM	6957	CB	ALA	924	-31.111	37.338	69.543	1.00	2.00
ATOM	6958	C	ALA	924	-33.575	37.273	69.450	1.00	3.04
ATOM	6959	O	ALA	924	-33.905	36.319	68.747	1.00	2.00
ATOM	6960	N	SER	925	-34.206	38.442	69.460	1.00	9.62
ATOM	6961	CA	SER	925	-35.381	38.698	68.639	1.00	11.92
ATOM	6962	CB	SER	925	-36.572	39.113	69.501	1.00	11.35
ATOM	6963	OG	SER	925	-36.232	40.204	70.334	1.00	19.80
ATOM	6964	C	SER	925	-35.072	39.788	67.642	1.00	12.38
ATOM	6965	O	SER	925	-34.064	40.497	67.770	1.00	10.20
ATOM	6966	N	PHE	926	-35.929	39.895	66.634	1.00	13.25
ATOM	6967	CA	PHE	926	-35.757	40.902	65.600	1.00	17.78
ATOM	6968	CB	PHE	926	-34.943	40.345	64.426	1.00	19.17
ATOM	6969	CG	PHE	926	-35.773	39.708	63.338	1.00	20.62
ATOM	6970	CD1	PHE	926	-36.181	40.450	62.233	1.00	21.87
ATOM	6971	CD2	PHE	926	-36.117	38.361	63.398	1.00	22.55
ATOM	6972	CE1	PHE	926	-36.918	39.854	61.206	1.00	24.46
ATOM	6973	CE2	PHE	926	-36.853	37.760	62.378	1.00	16.54
ATOM	6974	CZ	PHE	926	-37.253	38.506	61.280	1.00	16.99
ATOM	6975	C	PHE	926	-37.108	41.392	65.120	1.00	22.57
ATOM	6976	O	PHE	926	-38.091	40.649	65.127	1.00	23.34
ATOM	6977	N	ASN	927	-37.153	42.649	64.702	1.00	24.25
ATOM	6978	CA	ASN	927	-38.391	43.221	64.212	1.00	23.72
ATOM	6979	CB	ASN	927	-39.193	43.848	65.358	1.00	29.47
ATOM	6980	CG	ASN	927	-40.546	44.398	64.908	1.00	33.83
ATOM	6981	OD1	ASN	927	-41.045	45.363	65.486	1.00	41.80
ATOM	6982	ND2	ASN	927	-41.140	43.789	63.877	1.00	23.83
ATOM	6983	C	ASN	927	-38.092	44.246	63.140	1.00	20.94
ATOM	6984	O	ASN	927	-37.449	45.270	63.401	1.00	17.38
ATOM	6985	N	VAL	928	-38.495	43.912	61.916	1.00	16.87
ATOM	6986	CA	VAL	928	-38.306	44.796	60.781	1.00	14.68
ATOM	6987	CB	VAL	928	-38.574	44.095	59.462	1.00	6.22
ATOM	6988	CG1	VAL	928	-38.438	45.088	58.337	1.00	6.93
ATOM	6989	CG2	VAL	928	-37.591	42.967	59.278	1.00	8.36
ATOM	6990	C	VAL	928	-39.314	45.901	60.968	1.00	14.60
ATOM	6991	O	VAL	928	-40.489	45.637	61.224	1.00	23.98
ATOM	6992	N	ILE	929	-38.867	47.137	60.824	1.00	15.11
ATOM	6993	CA	ILE	929	-39.762	48.257	61.047	1.00	14.12
ATOM	6994	CB	ILE	929	-39.435	48.925	62.386	1.00	7.95
ATOM	6995	CG2	ILE	929	-39.550	47.923	63.523	1.00	2.00
ATOM	6996	CG1	ILE	929	-38.035	49.524	62.329	1.00	2.00
ATOM	6997	CD1	ILE	929	-37.713	50.336	63.520	1.00	6.61
ATOM	6998	C	ILE	929	-39.781	49.349	59.988	1.00	20.17
ATOM	6999	O	ILE	929	-40.289	50.437	60.259	1.00	21.67
ATOM	7000	N	GLU	930	-39.215	49.092	58.810	1.00	18.83
ATOM	7001	CA	GLU	930	-39.213	50.107	57.760	1.00	19.95
ATOM	7002	CB	GLU	930	-38.473	51.355	58.231	1.00	24.11
ATOM	7003	CG	GLU	930	-38.967	52.636	57.595	1.00	35.21
ATOM	7004	CD	GLU	930	-38.207	53.851	58.088	1.00	41.36
ATOM	7005	OE1	GLU	930	-37.185	54.201	57.452	1.00	43.36
ATOM	7006	OE2	GLU	930	-38.630	54.446	59.112	1.00	42.81

ATOM	7007	C	GLU	930	-38.622	49.633	56.442	1.00	16.61
ATOM	7008	O	GLU	930	-37.513	49.105	56.401	1.00	10.88
ATOM	7009	N	PHE	931	-39.370	49.864	55.368	1.00	14.87
ATOM	7010	CA	PHE	931	-38.968	49.473	54.023	1.00	13.16
ATOM	7011	CB	PHE	931	-40.047	48.601	53.388	1.00	13.61
ATOM	7012	CG	PHE	931	-40.386	47.368	54.179	1.00	11.23
ATOM	7013	CD1	PHE	931	-40.217	46.106	53.625	1.00	18.18
ATOM	7014	CD2	PHE	931	-40.927	47.465	55.451	1.00	8.70
ATOM	7015	CE1	PHE	931	-40.588	44.958	54.320	1.00	15.82
ATOM	7016	CE2	PHE	931	-41.299	46.328	56.152	1.00	17.45
ATOM	7017	CZ	PHE	931	-41.130	45.070	55.582	1.00	20.37
ATOM	7018	C	PHE	931	-38.815	50.752	53.215	1.00	18.39
ATOM	7019	O	PHE	931	-39.579	51.698	53.420	1.00	17.99
ATOM	7020	N	PRO	932	-37.879	50.776	52.240	1.00	23.33
ATOM	7021	CD	PRO	932	-37.098	49.603	51.809	1.00	21.58
ATOM	7022	CA	PRO	932	-37.575	51.916	51.363	1.00	28.22
ATOM	7023	CB	PRO	932	-36.347	51.427	50.608	1.00	20.89
ATOM	7024	CG	PRO	932	-36.657	50.006	50.408	1.00	13.71
ATOM	7025	C	PRO	932	-38.655	52.312	50.366	1.00	33.89
ATOM	7026	O	PRO	932	-38.487	53.292	49.632	1.00	35.66
ATOM	7027	N	TYR	933	-39.760	51.572	50.363	1.00	37.16
ATOM	7028	CA	TYR	933	-40.846	51.795	49.421	1.00	45.66
ATOM	7029	CB	TYR	933	-41.616	50.487	49.223	1.00	47.99
ATOM	7030	CG	TYR	933	-40.695	49.320	48.914	1.00	53.13
ATOM	7031	CD1	TYR	933	-40.826	48.097	49.580	1.00	49.86
ATOM	7032	CE1	TYR	933	-39.918	47.059	49.356	1.00	47.13
ATOM	7033	CD2	TYR	933	-39.636	49.469	48.011	1.00	51.73
ATOM	7034	CE2	TYR	933	-38.729	48.442	47.783	1.00	44.91
ATOM	7035	CZ	TYR	933	-38.870	47.244	48.456	1.00	48.08
ATOM	7036	OH	TYR	933	-37.951	46.245	48.232	1.00	48.03
ATOM	7037	C	TYR	933	-41.801	52.948	49.689	1.00	57.33
ATOM	7038	O	TYR	933	-41.576	54.067	49.221	1.00	58.83
ATOM	7039	N	LYS	934	-42.861	52.660	50.444	1.00	69.98
ATOM	7040	CA	LYS	934	-43.932	53.611	50.779	1.00	75.73
ATOM	7041	CB	LYS	934	-43.401	55.028	51.031	1.00	79.40
ATOM	7042	CG	LYS	934	-44.125	55.795	52.150	1.00	88.82
ATOM	7043	CD	LYS	934	-45.543	56.234	51.782	1.00	92.54
ATOM	7044	CE	LYS	934	-46.179	57.046	52.912	1.00	92.39
ATOM	7045	NZ	LYS	934	-47.526	57.588	52.555	1.00	92.94
ATOM	7046	C	LYS	934	-44.918	53.592	49.608	1.00	77.42
ATOM	7047	O	LYS	934	-44.507	53.514	48.444	1.00	77.83
ATOM	7048	N	ASN	935	-46.208	53.662	49.937	1.00	76.26
ATOM	7049	CA	ASN	935	-47.313	53.603	48.970	1.00	72.10
ATOM	7050	CB	ASN	935	-46.993	54.333	47.662	1.00	74.61
ATOM	7051	CG	ASN	935	-46.931	55.835	47.833	1.00	77.68
ATOM	7052	OD1	ASN	935	-46.304	56.536	47.034	1.00	79.45
ATOM	7053	ND2	ASN	935	-47.585	56.342	48.878	1.00	74.02
ATOM	7054	C	ASN	935	-47.634	52.143	48.687	1.00	69.96
ATOM	7055	O	ASN	935	-48.570	51.827	47.946	1.00	73.77
ATOM	7056	N	LEU	936	-46.830	51.264	49.280	1.00	61.87
ATOM	7057	CA	LEU	936	-46.989	49.827	49.157	1.00	48.97
ATOM	7058	CB	LEU	936	-45.666	49.176	48.757	1.00	47.51
ATOM	7059	CG	LEU	936	-45.143	49.257	47.319	1.00	44.32
ATOM	7060	CD1	LEU	936	-46.101	48.550	46.398	1.00	48.00
ATOM	7061	CD2	LEU	936	-44.917	50.686	46.874	1.00	41.53
ATOM	7062	C	LEU	936	-47.382	49.333	50.536	1.00	47.08
ATOM	7063	O	LEU	936	-46.837	49.790	51.535	1.00	36.42

ATOM	7064	N	PRO	937	-48.367	48.422	50.610	1.00	54.98
ATOM	7065	CD	PRO	937	-49.112	47.852	49.472	1.00	56.26
ATOM	7066	CA	PRO	937	-48.838	47.859	51.882	1.00	59.03
ATOM	7067	CB	PRO	937	-50.069	47.057	51.459	1.00	59.51
ATOM	7068	CG	PRO	937	-49.707	46.594	50.074	1.00	57.29
ATOM	7069	C	PRO	937	-47.765	46.949	52.476	1.00	62.19
ATOM	7070	O	PRO	937	-47.165	46.139	51.766	1.00	67.98
ATOM	7071	N	ILE	938	-47.518	47.081	53.774	1.00	63.27
ATOM	7072	CA	ILE	938	-46.495	46.276	54.428	1.00	61.88
ATOM	7073	CB	ILE	938	-45.163	47.060	54.563	1.00	60.99
ATOM	7074	CG2	ILE	938	-44.601	47.389	53.192	1.00	65.25
ATOM	7075	CG1	ILE	938	-45.357	48.348	55.381	1.00	61.25
ATOM	7076	CD1	ILE	938	-46.019	49.493	54.643	1.00	56.39
ATOM	7077	C	ILE	938	-46.910	45.793	55.810	1.00	63.80
ATOM	7078	O	ILE	938	-47.553	46.523	56.563	1.00	65.91
ATOM	7079	N	GLU	939	-46.551	44.555	56.132	1.00	66.79
ATOM	7080	CA	GLU	939	-46.858	43.974	57.445	1.00	73.81
ATOM	7081	CB	GLU	939	-47.596	42.631	57.298	1.00	80.04
ATOM	7082	CG	GLU	939	-48.946	42.686	56.559	1.00	87.39
ATOM	7083	CD	GLU	939	-48.855	42.318	55.072	1.00	91.28
ATOM	7084	OE1	GLU	939	-47.750	41.990	54.589	1.00	92.07
ATOM	7085	OE2	GLU	939	-49.903	42.348	54.385	1.00	93.28
ATOM	7086	C	GLU	939	-45.530	43.765	58.187	1.00	69.57
ATOM	7087	O	GLU	939	-44.584	43.219	57.612	1.00	70.55
ATOM	7088	N	ASP	940	-45.449	44.198	59.448	1.00	65.78
ATOM	7089	CA	ASP	940	-44.207	44.046	60.216	1.00	57.32
ATOM	7090	CB	ASP	940	-44.321	44.671	61.629	1.00	61.43
ATOM	7091	CG	ASP	940	-43.728	46.107	61.715	1.00	60.12
ATOM	7092	OD1	ASP	940	-43.478	46.747	60.669	1.00	61.08
ATOM	7093	OD2	ASP	940	-43.508	46.600	62.846	1.00	55.33
ATOM	7094	C	ASP	940	-43.742	42.587	60.283	1.00	49.30
ATOM	7095	O	ASP	940	-44.559	41.659	60.369	1.00	42.48
ATOM	7096	N	ILE	941	-42.425	42.419	60.139	1.00	43.40
ATOM	7097	CA	ILE	941	-41.733	41.125	60.161	1.00	31.39
ATOM	7098	CB	ILE	941	-40.675	41.054	59.043	1.00	24.45
ATOM	7099	CG2	ILE	941	-40.000	39.696	59.030	1.00	30.09
ATOM	7100	CG1	ILE	941	-41.323	41.315	57.692	1.00	23.82
ATOM	7101	CD1	ILE	941	-40.328	41.490	56.585	1.00	26.23
ATOM	7102	C	ILE	941	-41.014	40.961	61.501	1.00	27.74
ATOM	7103	O	ILE	941	-40.219	41.817	61.897	1.00	26.31
ATOM	7104	N	THR	942	-41.284	39.847	62.178	1.00	27.48
ATOM	7105	CA	THR	942	-40.693	39.561	63.480	1.00	29.12
ATOM	7106	CB	THR	942	-41.624	40.014	64.634	1.00	36.28
ATOM	7107	OG1	THR	942	-42.172	41.306	64.341	1.00	49.96
ATOM	7108	CG2	THR	942	-40.853	40.100	65.951	1.00	42.86
ATOM	7109	C	THR	942	-40.458	38.065	63.645	1.00	26.87
ATOM	7110	O	THR	942	-41.094	37.249	62.983	1.00	32.76
ATOM	7111	N	ASN	943	-39.536	37.725	64.538	1.00	29.83
ATOM	7112	CA	ASN	943	-39.184	36.348	64.850	1.00	23.59
ATOM	7113	CB	ASN	943	-38.839	35.588	63.579	1.00	32.42
ATOM	7114	CG	ASN	943	-39.212	34.132	63.655	1.00	43.39
ATOM	7115	OD1	ASN	943	-39.187	33.524	64.725	1.00	40.08
ATOM	7116	ND2	ASN	943	-39.567	33.575	62.505	1.00	54.91
ATOM	7117	C	ASN	943	-37.977	36.385	65.775	1.00	19.55
ATOM	7118	O	ASN	943	-37.257	37.386	65.834	1.00	13.95
ATOM	7119	N	SER	944	-37.758	35.303	66.512	1.00	17.54
ATOM	7120	CA	SER	944	-36.626	35.249	67.431	1.00	15.36

ATOM	7121	CB	SER	944	-37.073	35.616	68.841	1.00	16.92
ATOM	7122	OG	SER	944	-38.077	34.726	69.285	1.00	24.79
ATOM	7123	C	SER	944	-35.986	33.879	67.449	1.00	18.60
ATOM	7124	O	SER	944	-36.331	33.006	66.648	1.00	23.34
ATOM	7125	N	THR	945	-35.063	33.689	68.391	1.00	17.69
ATOM	7126	CA	THR	945	-34.351	32.423	68.535	1.00	10.58
ATOM	7127	CB	THR	945	-33.449	32.164	67.311	1.00	10.32
ATOM	7128	OG1	THR	945	-33.159	30.768	67.225	1.00	11.34
ATOM	7129	CG2	THR	945	-32.134	32.971	67.415	1.00	3.92
ATOM	7130	C	THR	945	-33.495	32.367	69.802	1.00	9.39
ATOM	7131	O	THR	945	-33.173	33.388	70.412	1.00	7.80
ATOM	7132	N	LEU	946	-33.126	31.157	70.189	1.00	11.56
ATOM	7133	CA	LEU	946	-32.297	30.960	71.370	1.00	13.26
ATOM	7134	CB	LEU	946	-33.072	30.256	72.483	1.00	15.20
ATOM	7135	CG	LEU	946	-33.347	28.759	72.325	1.00	13.25
ATOM	7136	CD1	LEU	946	-34.128	28.324	73.529	1.00	23.87
ATOM	7137	CD2	LEU	946	-34.121	28.427	71.045	1.00	12.11
ATOM	7138	C	LEU	946	-31.067	30.152	71.002	1.00	8.81
ATOM	7139	O	LEU	946	-31.060	29.384	70.031	1.00	6.78
ATOM	7140	N	VAL	947	-30.027	30.346	71.791	1.00	3.84
ATOM	7141	CA	VAL	947	-28.766	29.679	71.581	1.00	7.41
ATOM	7142	CB	VAL	947	-27.738	30.657	71.026	1.00	10.17
ATOM	7143	CG1	VAL	947	-26.360	30.057	71.085	1.00	16.13
ATOM	7144	CG2	VAL	947	-28.105	31.041	69.597	1.00	8.65
ATOM	7145	C	VAL	947	-28.327	29.205	72.938	1.00	14.39
ATOM	7146	O	VAL	947	-28.371	29.962	73.919	1.00	21.42
ATOM	7147	N	THR	948	-27.888	27.956	72.994	1.00	18.55
ATOM	7148	CA	THR	948	-27.474	27.383	74.261	1.00	19.77
ATOM	7149	CB	THR	948	-28.519	26.385	74.778	1.00	18.55
ATOM	7150	OG1	THR	948	-28.137	25.940	76.082	1.00	29.68
ATOM	7151	CG2	THR	948	-28.640	25.179	73.838	1.00	23.12
ATOM	7152	C	THR	948	-26.104	26.726	74.309	1.00	18.01
ATOM	7153	O	THR	948	-25.651	26.090	73.348	1.00	14.58
ATOM	7154	N	THR	949	-25.476	26.895	75.470	1.00	16.97
ATOM	7155	CA	THR	949	-24.171	26.347	75.796	1.00	16.54
ATOM	7156	CB	THR	949	-23.195	27.459	76.120	1.00	11.94
ATOM	7157	OG1	THR	949	-23.003	28.254	74.948	1.00	10.63
ATOM	7158	CG2	THR	949	-21.874	26.897	76.591	1.00	2.00
ATOM	7159	C	THR	949	-24.428	25.538	77.053	1.00	23.57
ATOM	7160	O	THR	949	-24.881	26.082	78.061	1.00	27.11
ATOM	7161	N	ASN	950	-24.178	24.238	76.987	1.00	29.59
ATOM	7162	CA	ASN	950	-24.434	23.386	78.137	1.00	36.77
ATOM	7163	CB	ASN	950	-25.233	22.157	77.705	1.00	39.39
ATOM	7164	CG	ASN	950	-26.592	22.514	77.129	1.00	44.62
ATOM	7165	OD1	ASN	950	-27.373	23.254	77.738	1.00	35.03
ATOM	7166	ND2	ASN	950	-26.876	21.972	75.951	1.00	49.62
ATOM	7167	C	ASN	950	-23.195	22.963	78.916	1.00	39.73
ATOM	7168	O	ASN	950	-22.269	22.373	78.356	1.00	42.84
ATOM	7169	N	VAL	951	-23.186	23.289	80.211	1.00	34.91
ATOM	7170	CA	VAL	951	-22.084	22.931	81.102	1.00	32.67
ATOM	7171	CB	VAL	951	-21.679	24.105	82.030	1.00	28.08
ATOM	7172	CG1	VAL	951	-21.139	25.264	81.210	1.00	23.28
ATOM	7173	CG2	VAL	951	-22.858	24.562	82.864	1.00	35.83
ATOM	7174	C	VAL	951	-22.520	21.733	81.937	1.00	32.56
ATOM	7175	O	VAL	951	-23.594	21.750	82.528	1.00	31.75
ATOM	7176	N	THR	952	-21.699	20.683	81.965	1.00	41.03
ATOM	7177	CA	THR	952	-22.029	19.464	82.709	1.00	44.89

ATOM	7178	CB	THR	952	-22.668	18.403	81.786	1.00	45.53
ATOM	7179	OG1	THR	952	-21.826	18.200	80.645	1.00	45.45
ATOM	7180	CG2	THR	952	-24.056	18.827	81.327	1.00	50.83
ATOM	7181	C	THR	952	-20.829	18.797	83.366	1.00	48.16
ATOM	7182	O	THR	952	-19.683	19.136	83.086	1.00	49.41
ATOM	7183	N	TRP	953	-21.113	17.810	84.214	1.00	54.58
ATOM	7184	CA	TRP	953	-20.081	17.049	84.911	1.00	57.05
ATOM	7185	CB	TRP	953	-20.399	16.983	86.400	1.00	61.27
ATOM	7186	CG	TRP	953	-20.090	18.246	87.169	1.00	70.58
ATOM	7187	CD2	TRP	953	-18.794	18.717	87.562	1.00	72.21
ATOM	7188	CE2	TRP	953	-18.986	19.865	88.363	1.00	70.37
ATOM	7189	CE3	TRP	953	-17.483	18.274	87.316	1.00	75.66
ATOM	7190	CD1	TRP	953	-20.992	19.120	87.720	1.00	70.31
ATOM	7191	NE1	TRP	953	-20.338	20.090	88.444	1.00	68.55
ATOM	7192	CZ2	TRP	953	-17.925	20.576	88.924	1.00	71.74
ATOM	7193	CZ3	TRP	953	-16.423	18.981	87.875	1.00	72.57
ATOM	7194	CH2	TRP	953	-16.652	20.117	88.669	1.00	75.68
ATOM	7195	C	TRP	953	-19.971	15.631	84.348	1.00	54.28
ATOM	7196	O	TRP	953	-20.924	14.846	84.417	1.00	49.82
ATOM	7197	N	CYS	1005	-43.682	9.633	9.907	1.00	74.43
ATOM	7198	CA	CYS	1005	-43.255	9.404	11.283	1.00	74.77
ATOM	7199	CB	CYS	1005	-41.783	9.816	11.457	1.00	73.96
ATOM	7200	SG	CYS	1005	-41.005	9.368	13.048	1.00	67.42
ATOM	7201	C	CYS	1005	-44.143	10.225	12.208	1.00	74.77
ATOM	7202	O	CYS	1005	-44.868	11.108	11.747	1.00	73.80
ATOM	7203	N	THR	1006	-44.114	9.896	13.499	1.00	73.36
ATOM	7204	CA	THR	1006	-44.882	10.609	14.517	1.00	74.78
ATOM	7205	CB	THR	1006	-44.126	11.911	14.979	1.00	77.29
ATOM	7206	OG1	THR	1006	-43.748	12.705	13.841	1.00	70.03
ATOM	7207	CG2	THR	1006	-42.884	11.562	15.779	1.00	77.67
ATOM	7208	C	THR	1006	-46.280	10.993	14.039	1.00	78.15
ATOM	7209	O	THR	1006	-47.187	10.165	13.954	1.00	76.93
ATOM	7210	N	THR	1007	-46.416	12.276	13.736	1.00	85.18
ATOM	7211	CA	THR	1007	-47.638	12.879	13.233	1.00	88.92
ATOM	7212	CB	THR	1007	-48.368	13.681	14.352	1.00	93.23
ATOM	7213	OG1	THR	1007	-48.627	12.815	15.472	1.00	92.73
ATOM	7214	CG2	THR	1007	-49.697	14.246	13.841	1.00	90.44
ATOM	7215	C	THR	1007	-47.124	13.793	12.106	1.00	92.27
ATOM	7216	O	THR	1007	-47.126	15.027	12.205	1.00	89.34
ATOM	7217	N	ARG	1008	-46.588	13.135	11.077	1.00	91.48
ATOM	7218	CA	ARG	1008	-46.019	13.764	9.889	1.00	87.86
ATOM	7219	CB	ARG	1008	-44.928	14.773	10.294	1.00	88.53
ATOM	7220	CG	ARG	1008	-44.456	15.707	9.184	1.00	91.25
ATOM	7221	CD	ARG	1008	-45.571	16.618	8.681	1.00	96.53
ATOM	7222	NE	ARG	1008	-45.181	17.342	7.467	1.00	99.34
ATOM	7223	CZ	ARG	1008	-46.012	17.672	6.477	1.00	98.88
ATOM	7224	NH1	ARG	1008	-47.303	17.359	6.537	1.00	98.80
ATOM	7225	NH2	ARG	1008	-45.542	18.285	5.398	1.00	97.80
ATOM	7226	C	ARG	1008	-45.437	12.599	9.064	1.00	88.26
ATOM	7227	O	ARG	1008	-46.068	11.544	8.955	1.00	85.38
ATOM	7228	N	GLY	1009	-44.221	12.760	8.549	1.00	91.16
ATOM	7229	CA	GLY	1009	-43.596	11.717	7.748	1.00	91.62
ATOM	7230	C	GLY	1009	-43.723	11.999	6.261	1.00	92.09
ATOM	7231	O	GLY	1009	-44.290	11.200	5.511	1.00	88.10
ATOM	7232	N	VAL	1010	-43.176	13.141	5.843	1.00	92.19
ATOM	7233	CA	VAL	1010	-43.213	13.598	4.453	1.00	90.90
ATOM	7234	CB	VAL	1010	-42.743	15.075	4.325	1.00	89.84

ATOM	7235	CG1	VAL	1010	-43.131	15.653	2.968	1.00	89.08
ATOM	7236	CG2	VAL	1010	-43.309	15.914	5.447	1.00	87.26
ATOM	7237	C	VAL	1010	-42.312	12.764	3.558	1.00	91.33
ATOM	7238	O	VAL	1010	-41.361	12.135	4.028	1.00	91.02
ATOM	7239	N	SER	1011	-42.621	12.781	2.265	1.00	89.21
ATOM	7240	CA	SER	1011	-41.844	12.062	1.268	1.00	89.39
ATOM	7241	CB	SER	1011	-42.538	12.134	-0.096	1.00	91.06
ATOM	7242	OG	SER	1011	-43.818	11.526	-0.042	1.00	87.37
ATOM	7243	C	SER	1011	-40.444	12.679	1.209	1.00	87.64
ATOM	7244	O	SER	1011	-40.257	13.809	0.750	1.00	82.30
ATOM	7245	N	SER	1012	-39.485	11.932	1.749	1.00	85.94
ATOM	7246	CA	SER	1012	-38.080	12.320	1.828	1.00	85.88
ATOM	7247	CB	SER	1012	-37.942	13.753	2.378	1.00	88.00
ATOM	7248	OG	SER	1012	-38.781	13.982	3.505	1.00	84.90
ATOM	7249	C	SER	1012	-37.398	11.313	2.764	1.00	85.59
ATOM	7250	O	SER	1012	-37.618	11.341	3.979	1.00	85.06
ATOM	7251	N	CYS	1013	-36.601	10.410	2.196	1.00	83.57
ATOM	7252	CA	CYS	1013	-35.923	9.385	2.992	1.00	81.12
ATOM	7253	CB	CYS	1013	-35.225	8.368	2.087	1.00	81.59
ATOM	7254	SG	CYS	1013	-34.604	6.920	2.987	1.00	81.23
ATOM	7255	C	CYS	1013	-34.922	9.947	3.994	1.00	79.89
ATOM	7256	O	CYS	1013	-35.029	9.691	5.195	1.00	78.83
ATOM	7257	N	GLN	1014	-33.951	10.704	3.484	1.00	78.55
ATOM	7258	CA	GLN	1014	-32.910	11.323	4.305	1.00	72.38
ATOM	7259	CB	GLN	1014	-32.069	12.291	3.466	1.00	74.44
ATOM	7260	CG	GLN	1014	-31.644	11.761	2.097	1.00	80.60
ATOM	7261	CD	GLN	1014	-30.830	10.478	2.177	1.00	83.68
ATOM	7262	OE1	GLN	1014	-31.094	9.514	1.452	1.00	82.63
ATOM	7263	NE2	GLN	1014	-29.828	10.466	3.055	1.00	86.06
ATOM	7264	C	GLN	1014	-33.546	12.084	5.459	1.00	69.20
ATOM	7265	O	GLN	1014	-33.257	11.801	6.617	1.00	70.13
ATOM	7266	N	GLN	1015	-34.436	13.020	5.128	1.00	66.59
ATOM	7267	CA	GLN	1015	-35.134	13.836	6.121	1.00	68.42
ATOM	7268	CB	GLN	1015	-36.131	14.795	5.453	1.00	73.56
ATOM	7269	CG	GLN	1015	-35.508	15.957	4.684	1.00	86.25
ATOM	7270	CD	GLN	1015	-35.026	15.577	3.287	1.00	91.90
ATOM	7271	OE1	GLN	1015	-34.133	14.740	3.126	1.00	95.04
ATOM	7272	NE2	GLN	1015	-35.608	16.205	2.271	1.00	93.12
ATOM	7273	C	GLN	1015	-35.881	12.979	7.135	1.00	68.43
ATOM	7274	O	GLN	1015	-36.014	13.366	8.298	1.00	69.24
ATOM	7275	N	CYS	1016	-36.359	11.817	6.690	1.00	68.93
ATOM	7276	CA	CYS	1016	-37.097	10.901	7.556	1.00	63.17
ATOM	7277	CB	CYS	1016	-37.623	9.707	6.758	1.00	62.98
ATOM	7278	SG	CYS	1016	-38.701	8.634	7.717	1.00	53.20
ATOM	7279	C	CYS	1016	-36.243	10.410	8.723	1.00	63.58
ATOM	7280	O	CYS	1016	-36.728	10.343	9.856	1.00	61.81
ATOM	7281	N	LEU	1017	-34.985	10.057	8.435	1.00	61.49
ATOM	7282	CA	LEU	1017	-34.038	9.587	9.458	1.00	51.20
ATOM	7283	CB	LEU	1017	-32.741	9.023	8.822	1.00	43.09
ATOM	7284	CG	LEU	1017	-32.747	7.929	7.723	1.00	41.79
ATOM	7285	CD1	LEU	1017	-31.357	7.291	7.551	1.00	22.78
ATOM	7286	CD2	LEU	1017	-33.764	6.844	8.039	1.00	37.19
ATOM	7287	C	LEU	1017	-33.703	10.783	10.351	1.00	51.93
ATOM	7288	O	LEU	1017	-33.746	10.694	11.580	1.00	47.52
ATOM	7289	N	ALA	1018	-33.451	11.921	9.701	1.00	57.42
ATOM	7290	CA	ALA	1018	-33.097	13.177	10.364	1.00	57.09
ATOM	7291	CB	ALA	1018	-32.735	14.234	9.324	1.00	57.01

ATOM	7292	C	ALA	1018	-34.158	13.714	11.315	1.00	57.33
ATOM	7293	O	ALA	1018	-33.890	14.632	12.099	1.00	60.23
ATOM	7294	N	VAL	1019	-35.365	13.164	11.231	1.00	56.72
ATOM	7295	CA	VAL	1019	-36.446	13.590	12.113	1.00	59.13
ATOM	7296	CB	VAL	1019	-37.822	13.057	11.636	1.00	59.17
ATOM	7297	CG1	VAL	1019	-38.912	13.421	12.635	1.00	56.32
ATOM	7298	CG2	VAL	1019	-38.159	13.627	10.267	1.00	59.00
ATOM	7299	C	VAL	1019	-36.150	13.101	13.536	1.00	61.88
ATOM	7300	O	VAL	1019	-35.735	13.893	14.390	1.00	65.26
ATOM	7301	N	SER	1020	-36.295	11.794	13.764	1.00	62.61
ATOM	7302	CA	SER	1020	-36.052	11.201	15.081	1.00	57.88
ATOM	7303	CB	SER	1020	-37.376	11.067	15.841	1.00	62.29
ATOM	7304	OG	SER	1020	-37.170	10.678	17.191	1.00	69.15
ATOM	7305	C	SER	1020	-35.375	9.835	14.973	1.00	53.10
ATOM	7306	O	SER	1020	-35.486	9.164	13.956	1.00	56.01
ATOM	7307	N	PRO	1021	-34.638	9.424	16.017	1.00	52.31
ATOM	7308	CD	PRO	1021	-34.302	10.257	17.185	1.00	55.32
ATOM	7309	CA	PRO	1021	-33.928	8.145	16.086	1.00	55.88
ATOM	7310	CB	PRO	1021	-33.450	8.113	17.529	1.00	57.09
ATOM	7311	CG	PRO	1021	-33.122	9.533	17.780	1.00	56.79
ATOM	7312	C	PRO	1021	-34.808	6.936	15.781	1.00	59.89
ATOM	7313	O	PRO	1021	-34.328	5.920	15.269	1.00	62.19
ATOM	7314	N	MET	1022	-36.090	7.039	16.116	1.00	63.74
ATOM	7315	CA	MET	1022	-37.032	5.953	15.876	1.00	66.31
ATOM	7316	CB	MET	1022	-37.907	5.728	17.114	1.00	68.75
ATOM	7317	CG	MET	1022	-38.326	6.999	17.815	1.00	74.68
ATOM	7318	SD	MET	1022	-39.211	8.110	16.726	1.00	78.01
ATOM	7319	CE	MET	1022	-40.190	9.041	17.922	1.00	80.41
ATOM	7320	C	MET	1022	-37.888	6.184	14.634	1.00	66.33
ATOM	7321	O	MET	1022	-39.075	6.492	14.732	1.00	62.81
ATOM	7322	N	CYS	1023	-37.275	6.024	13.466	1.00	70.16
ATOM	7323	CA	CYS	1023	-37.963	6.213	12.190	1.00	75.51
ATOM	7324	CB	CYS	1023	-37.638	7.586	11.601	1.00	69.58
ATOM	7325	SG	CYS	1023	-38.461	8.958	12.414	1.00	70.99
ATOM	7326	C	CYS	1023	-37.582	5.142	11.183	1.00	82.14
ATOM	7327	O	CYS	1023	-36.480	4.597	11.233	1.00	87.52
ATOM	7328	N	ALA	1024	-38.487	4.873	10.248	1.00	85.88
ATOM	7329	CA	ALA	1024	-38.256	3.866	9.216	1.00	90.87
ATOM	7330	CB	ALA	1024	-38.954	2.566	9.595	1.00	92.10
ATOM	7331	C	ALA	1024	-38.723	4.344	7.834	1.00	95.25
ATOM	7332	O	ALA	1024	-39.434	5.346	7.722	1.00	93.58
ATOM	7333	N	TRP	1025	-38.312	3.623	6.790	1.00	95.89
ATOM	7334	CA	TRP	1025	-38.674	3.953	5.409	1.00	95.83
ATOM	7335	CB	TRP	1025	-37.696	4.987	4.844	1.00	93.18
ATOM	7336	CG	TRP	1025	-38.352	5.986	3.962	1.00	91.51
ATOM	7337	CD2	TRP	1025	-38.127	6.177	2.567	1.00	92.76
ATOM	7338	CE2	TRP	1025	-38.976	7.220	2.142	1.00	92.73
ATOM	7339	CE3	TRP	1025	-37.285	5.567	1.624	1.00	96.21
ATOM	7340	CD1	TRP	1025	-39.297	6.895	4.324	1.00	91.81
ATOM	7341	NE1	TRP	1025	-39.683	7.641	3.242	1.00	91.30
ATOM	7342	CZ2	TRP	1025	-39.015	7.672	0.822	1.00	96.73
ATOM	7343	CZ3	TRP	1025	-37.320	6.015	0.303	1.00	98.41
ATOM	7344	CH2	TRP	1025	-38.180	7.058	-0.083	1.00	99.99
ATOM	7345	C	TRP	1025	-38.646	2.689	4.548	1.00	97.73
ATOM	7346	O	TRP	1025	-37.902	1.750	4.846	1.00	99.96
ATOM	7347	N	CYS	1026	-39.442	2.666	3.476	1.00	95.94
ATOM	7348	CA	CYS	1026	-39.490	1.491	2.602	1.00	92.74

ATOM	7349	CB	CYS	1026	-40.827	0.767	2.760	1.00	92.50
ATOM	7350	SG	CYS	1026	-40.635	-1.024	2.799	1.00	90.72
ATOM	7351	C	CYS	1026	-39.213	1.777	1.126	1.00	92.32
ATOM	7352	O	CYS	1026	-38.544	2.754	0.797	1.00	91.05
ATOM	7353	N	SER	1027	-39.705	0.907	0.244	1.00	92.46
ATOM	7354	CA	SER	1027	-39.493	1.074	-1.192	1.00	94.42
ATOM	7355	CB	SER	1027	-37.996	0.995	-1.509	1.00	96.45
ATOM	7356	OG	SER	1027	-37.718	1.528	-2.790	1.00	99.80
ATOM	7357	C	SER	1027	-40.256	0.059	-2.054	1.00	96.34
ATOM	7358	O	SER	1027	-40.471	-1.089	-1.650	1.00	95.45
ATOM	7359	N	ASP	1028	-40.632	0.512	-3.252	1.00	99.27
ATOM	7360	CA	ASP	1028	-41.373	-0.255	-4.275	1.00	99.77
ATOM	7361	CB	ASP	1028	-40.520	-1.397	-4.863	1.00	96.39
ATOM	7362	CG	ASP	1028	-41.166	-2.039	-6.096	1.00	93.09
ATOM	7363	OD1	ASP	1028	-41.555	-1.296	-7.025	1.00	88.64
ATOM	7364	OD2	ASP	1028	-41.302	-3.283	-6.125	1.00	92.84
ATOM	7365	C	ASP	1028	-42.776	-0.760	-3.912	1.00	96.61
ATOM	7366	O	ASP	1028	-43.684	0.044	-3.684	1.00	94.87
ATOM	7367	N	GLU	1029	-42.939	-2.088	-3.890	1.00	97.40
ATOM	7368	CA	GLU	1029	-44.206	-2.766	-3.596	1.00	95.15
ATOM	7369	CB	GLU	1029	-44.246	-3.302	-2.149	1.00	93.20
ATOM	7370	CG	GLU	1029	-43.362	-2.575	-1.124	1.00	88.84
ATOM	7371	CD	GLU	1029	-44.000	-1.310	-0.576	1.00	86.68
ATOM	7372	OE1	GLU	1029	-43.307	-0.270	-0.492	1.00	84.10
ATOM	7373	OE2	GLU	1029	-45.196	-1.363	-0.216	1.00	83.90
ATOM	7374	C	GLU	1029	-45.452	-1.957	-3.973	1.00	94.07
ATOM	7375	O	GLU	1029	-45.662	-1.688	-5.162	1.00	92.32
ATOM	7376	N	ALA	1030	-46.251	-1.546	-2.986	1.00	92.85
ATOM	7377	CA	ALA	1030	-47.461	-0.763	-3.259	1.00	94.50
ATOM	7378	CB	ALA	1030	-48.425	-1.567	-4.131	1.00	99.40
ATOM	7379	C	ALA	1030	-48.193	-0.261	-2.017	1.00	94.23
ATOM	7380	O	ALA	1030	-48.607	-1.055	-1.170	1.00	93.86
ATOM	7381	N	LEU	1031	-48.368	1.059	-1.937	1.00	93.17
ATOM	7382	CA	LEU	1031	-49.069	1.704	-0.820	1.00	96.74
ATOM	7383	CB	LEU	1031	-48.571	1.141	0.529	1.00	93.59
ATOM	7384	CG	LEU	1031	-47.199	1.505	1.113	1.00	90.88
ATOM	7385	CD1	LEU	1031	-46.881	0.524	2.220	1.00	88.85
ATOM	7386	CD2	LEU	1031	-46.096	1.497	0.065	1.00	91.22
ATOM	7387	C	LEU	1031	-48.976	3.248	-0.829	1.00	96.99
ATOM	7388	O	LEU	1031	-48.727	3.868	0.213	1.00	99.18
ATOM	7389	N	PRO	1032	-49.250	3.890	-1.987	1.00	96.37
ATOM	7390	CD	PRO	1032	-49.758	3.278	-3.228	1.00	96.10
ATOM	7391	CA	PRO	1032	-49.191	5.354	-2.125	1.00	96.42
ATOM	7392	CB	PRO	1032	-49.806	5.591	-3.506	1.00	95.26
ATOM	7393	CG	PRO	1032	-49.458	4.343	-4.250	1.00	97.92
ATOM	7394	C	PRO	1032	-49.979	6.102	-1.045	1.00	100.00
ATOM	7395	O	PRO	1032	-49.481	7.065	-0.447	1.00	100.00
ATOM	7396	N	LEU	1033	-51.209	5.646	-0.809	1.00	100.00
ATOM	7397	CA	LEU	1033	-52.093	6.241	0.189	1.00	97.66
ATOM	7398	CB	LEU	1033	-53.412	6.690	-0.466	1.00	94.56
ATOM	7399	CG	LEU	1033	-54.276	5.691	-1.251	1.00	91.47
ATOM	7400	CD1	LEU	1033	-55.662	6.281	-1.449	1.00	92.25
ATOM	7401	CD2	LEU	1033	-53.653	5.335	-2.597	1.00	88.56
ATOM	7402	C	LEU	1033	-52.369	5.274	1.347	1.00	98.77
ATOM	7403	O	LEU	1033	-52.144	4.062	1.227	1.00	97.06
ATOM	7404	N	GLY	1034	-52.840	5.821	2.468	1.00	98.79
ATOM	7405	CA	GLY	1034	-53.139	5.006	3.636	1.00	98.70

ATOM	7406	C	GLY	1034	-51.925	4.730	4.505	1.00	98.63
ATOM	7407	O	GLY	1034	-52.020	4.033	5.523	1.00	98.23
ATOM	7408	N	SER	1035	-50.787	5.285	4.098	1.00	100.00
ATOM	7409	CA	SER	1035	-49.521	5.122	4.809	1.00	100.00
ATOM	7410	CB	SER	1035	-48.966	3.703	4.612	1.00	100.00
ATOM	7411	OG	SER	1035	-48.699	3.439	3.242	1.00	99.66
ATOM	7412	C	SER	1035	-48.499	6.148	4.315	1.00	98.00
ATOM	7413	O	SER	1035	-48.334	6.351	3.104	1.00	97.63
ATOM	7414	N	PRO	1036	-47.825	6.835	5.253	1.00	95.14
ATOM	7415	CD	PRO	1036	-48.190	6.856	6.684	1.00	94.16
ATOM	7416	CA	PRO	1036	-46.813	7.855	4.952	1.00	95.38
ATOM	7417	CB	PRO	1036	-46.813	8.706	6.222	1.00	97.63
ATOM	7418	CG	PRO	1036	-47.087	7.691	7.297	1.00	96.07
ATOM	7419	C	PRO	1036	-45.401	7.334	4.627	1.00	93.68
ATOM	7420	O	PRO	1036	-44.503	8.129	4.327	1.00	93.54
ATOM	7421	N	ARG	1037	-45.224	6.011	4.648	1.00	90.34
ATOM	7422	CA	ARG	1037	-43.924	5.376	4.397	1.00	84.84
ATOM	7423	CB	ARG	1037	-43.412	5.680	2.977	1.00	86.39
ATOM	7424	CG	ARG	1037	-44.250	5.084	1.853	1.00	91.91
ATOM	7425	CD	ARG	1037	-43.486	5.071	0.526	1.00	96.55
ATOM	7426	NE	ARG	1037	-44.282	4.513	-0.571	1.00	98.65
ATOM	7427	CZ	ARG	1037	-43.777	3.991	-1.690	1.00	96.89
ATOM	7428	NH1	ARG	1037	-42.464	3.943	-1.881	1.00	96.56
ATOM	7429	NH2	ARG	1037	-44.593	3.520	-2.625	1.00	97.55
ATOM	7430	C	ARG	1037	-42.938	5.910	5.429	1.00	85.19
ATOM	7431	O	ARG	1037	-41.888	6.442	5.076	1.00	82.50
ATOM	7432	N	CYS	1038	-43.287	5.760	6.707	1.00	82.05
ATOM	7433	CA	CYS	1038	-42.464	6.272	7.802	1.00	82.87
ATOM	7434	CB	CYS	1038	-42.469	7.810	7.722	1.00	83.27
ATOM	7435	SG	CYS	1038	-41.154	8.723	8.576	1.00	85.17
ATOM	7436	C	CYS	1038	-43.014	5.809	9.167	1.00	83.74
ATOM	7437	O	CYS	1038	-44.134	5.291	9.248	1.00	81.81
ATOM	7438	N	ASP	1039	-42.200	5.991	10.212	1.00	83.86
ATOM	7439	CA	ASP	1039	-42.505	5.659	11.617	1.00	83.09
ATOM	7440	CB	ASP	1039	-44.012	5.678	11.899	1.00	84.66
ATOM	7441	CG	ASP	1039	-44.329	6.089	13.319	1.00	88.51
ATOM	7442	OD1	ASP	1039	-43.980	5.329	14.252	1.00	88.35
ATOM	7443	OD2	ASP	1039	-44.922	7.177	13.501	1.00	89.73
ATOM	7444	C	ASP	1039	-41.877	4.372	12.152	1.00	82.19
ATOM	7445	O	ASP	1039	-41.823	3.357	11.460	1.00	81.39
ATOM	7446	N	LEU	1040	-41.432	4.428	13.407	1.00	83.79
ATOM	7447	CA	LEU	1040	-40.780	3.301	14.081	1.00	87.68
ATOM	7448	CB	LEU	1040	-40.305	3.704	15.493	1.00	89.44
ATOM	7449	CG	LEU	1040	-39.485	2.762	16.405	1.00	86.39
ATOM	7450	CD1	LEU	1040	-40.356	1.729	17.122	1.00	87.31
ATOM	7451	CD2	LEU	1040	-38.369	2.098	15.613	1.00	83.83
ATOM	7452	C	LEU	1040	-41.646	2.063	14.179	1.00	85.91
ATOM	7453	O	LEU	1040	-42.546	1.984	15.017	1.00	84.65
ATOM	7454	N	LYS	1041	-41.354	1.094	13.320	1.00	84.79
ATOM	7455	CA	LYS	1041	-42.070	-0.171	13.306	1.00	87.85
ATOM	7456	CB	LYS	1041	-41.501	-1.090	14.389	1.00	91.22
ATOM	7457	CG	LYS	1041	-39.976	-1.281	14.317	1.00	89.90
ATOM	7458	CD	LYS	1041	-39.506	-1.966	13.023	1.00	84.12
ATOM	7459	CE	LYS	1041	-38.980	-0.986	11.970	1.00	79.30
ATOM	7460	NZ	LYS	1041	-40.030	-0.189	11.282	1.00	66.12
ATOM	7461	C	LYS	1041	-43.589	-0.031	13.427	1.00	90.31
ATOM	7462	O	LYS	1041	-44.269	-0.899	13.981	1.00	92.23

ATOM	7463	N	GLU	1042	-44.097	1.110	12.973	1.00	91.32
ATOM	7464	CA	GLU	1042	-45.531	1.379	12.960	1.00	91.12
ATOM	7465	CB	GLU	1042	-45.788	2.885	12.938	1.00	88.51
ATOM	7466	CG	GLU	1042	-47.245	3.276	13.072	1.00	91.71
ATOM	7467	CD	GLU	1042	-47.802	3.006	14.458	1.00	95.25
ATOM	7468	OE1	GLU	1042	-47.761	3.932	15.300	1.00	93.76
ATOM	7469	OE2	GLU	1042	-48.285	1.876	14.701	1.00	95.01
ATOM	7470	C	GLU	1042	-45.944	0.771	11.630	1.00	88.80
ATOM	7471	O	GLU	1042	-47.027	0.203	11.484	1.00	91.74
ATOM	7472	N	ASN	1043	-45.025	0.884	10.673	1.00	87.17
ATOM	7473	CA	ASN	1043	-45.168	0.344	9.330	1.00	85.50
ATOM	7474	CB	ASN	1043	-44.090	0.942	8.412	1.00	87.56
ATOM	7475	CG	ASN	1043	-42.663	0.785	8.969	1.00	86.79
ATOM	7476	OD1	ASN	1043	-42.453	0.252	10.065	1.00	89.20
ATOM	7477	ND2	ASN	1043	-41.680	1.263	8.206	1.00	83.49
ATOM	7478	C	ASN	1043	-44.990	-1.167	9.411	1.00	84.85
ATOM	7479	O	ASN	1043	-45.076	-1.870	8.401	1.00	84.79
ATOM	7480	N	LEU	1044	-44.746	-1.643	10.631	1.00	83.36
ATOM	7481	CA	LEU	1044	-44.538	-3.054	10.916	1.00	85.25
ATOM	7482	CB	LEU	1044	-44.162	-3.231	12.388	1.00	80.24
ATOM	7483	CG	LEU	1044	-43.276	-4.417	12.764	1.00	82.73
ATOM	7484	CD1	LEU	1044	-41.993	-4.397	11.943	1.00	84.14
ATOM	7485	CD2	LEU	1044	-42.965	-4.360	14.249	1.00	81.46
ATOM	7486	C	LEU	1044	-45.772	-3.890	10.578	1.00	87.16
ATOM	7487	O	LEU	1044	-45.772	-5.114	10.743	1.00	88.94
ATOM	7488	N	LEU	1045	-46.827	-3.220	10.114	1.00	89.55
ATOM	7489	CA	LEU	1045	-48.050	-3.903	9.727	1.00	87.59
ATOM	7490	CB	LEU	1045	-49.282	-3.070	10.091	1.00	84.18
ATOM	7491	CG	LEU	1045	-50.121	-3.717	11.203	1.00	83.71
ATOM	7492	CD1	LEU	1045	-50.772	-5.001	10.690	1.00	77.41
ATOM	7493	CD2	LEU	1045	-49.254	-4.010	12.429	1.00	79.71
ATOM	7494	C	LEU	1045	-48.043	-4.286	8.244	1.00	88.91
ATOM	7495	O	LEU	1045	-48.248	-3.447	7.357	1.00	87.11
ATOM	7496	N	LYS	1046	-47.738	-5.563	8.013	1.00	92.24
ATOM	7497	CA	LYS	1046	-47.660	-6.185	6.691	1.00	92.36
ATOM	7498	CB	LYS	1046	-49.055	-6.602	6.197	1.00	89.79
ATOM	7499	CG	LYS	1046	-49.410	-8.072	6.429	1.00	89.03
ATOM	7500	CD	LYS	1046	-48.452	-9.018	5.703	1.00	85.40
ATOM	7501	CE	LYS	1046	-49.121	-10.354	5.371	1.00	87.13
ATOM	7502	NZ	LYS	1046	-49.746	-11.029	6.548	1.00	86.84
ATOM	7503	C	LYS	1046	-46.914	-5.433	5.588	1.00	93.83
ATOM	7504	O	LYS	1046	-47.317	-5.496	4.424	1.00	92.79
ATOM	7505	N	ASP	1047	-45.834	-4.732	5.941	1.00	92.26
ATOM	7506	CA	ASP	1047	-45.044	-4.019	4.937	1.00	94.38
ATOM	7507	CB	ASP	1047	-45.895	-2.984	4.189	1.00	94.89
ATOM	7508	CG	ASP	1047	-45.446	-2.799	2.742	1.00	95.01
ATOM	7509	OD1	ASP	1047	-46.208	-3.171	1.824	1.00	94.57
ATOM	7510	OD2	ASP	1047	-44.322	-2.297	2.519	1.00	93.91
ATOM	7511	C	ASP	1047	-43.745	-3.367	5.416	1.00	95.42
ATOM	7512	O	ASP	1047	-43.750	-2.496	6.290	1.00	92.95
ATOM	7513	N	ASN	1048	-42.645	-3.799	4.798	1.00	95.68
ATOM	7514	CA	ASN	1048	-41.285	-3.309	5.056	1.00	96.00
ATOM	7515	CB	ASN	1048	-40.979	-3.194	6.567	1.00	95.16
ATOM	7516	CG	ASN	1048	-39.894	-2.143	6.884	1.00	92.50
ATOM	7517	OD1	ASN	1048	-40.165	-1.131	7.533	1.00	87.89
ATOM	7518	ND2	ASN	1048	-38.664	-2.398	6.442	1.00	89.70
ATOM	7519	C	ASN	1048	-40.314	-4.291	4.386	1.00	97.90

ATOM	7520	O	ASN	1048	-40.656	-5.455	4.146	1.00	97.24
ATOM	7521	N	CYS	1049	-39.122	-3.796	4.053	1.00	98.64
ATOM	7522	CA	CYS	1049	-38.079	-4.595	3.412	1.00	94.64
ATOM	7523	CB	CYS	1049	-37.071	-3.675	2.710	1.00	95.27
ATOM	7524	SG	CYS	1049	-36.424	-2.323	3.744	1.00	100.00
ATOM	7525	C	CYS	1049	-37.358	-5.491	4.416	1.00	89.94
ATOM	7526	O	CYS	1049	-37.597	-6.697	4.466	1.00	85.44
ATOM	7527	N	PHE	1056	-30.499	0.924	10.847	1.00	77.79
ATOM	7528	CA	PHE	1056	-30.453	2.339	11.198	1.00	75.09
ATOM	7529	CB	PHE	1056	-31.798	3.020	10.883	1.00	75.04
ATOM	7530	CG	PHE	1056	-32.970	2.497	11.695	1.00	77.70
ATOM	7531	CD1	PHE	1056	-33.305	3.078	12.923	1.00	77.87
ATOM	7532	CD2	PHE	1056	-33.748	1.440	11.224	1.00	72.36
ATOM	7533	CE1	PHE	1056	-34.397	2.615	13.667	1.00	72.17
ATOM	7534	CE2	PHE	1056	-34.840	0.973	11.963	1.00	67.27
ATOM	7535	CZ	PHE	1056	-35.164	1.562	13.184	1.00	67.40
ATOM	7536	C	PHE	1056	-30.000	2.693	12.627	1.00	75.49
ATOM	7537	O	PHE	1056	-29.367	3.734	12.818	1.00	81.57
ATOM	7538	N	PRO	1057	-30.276	1.829	13.638	1.00	71.48
ATOM	7539	CD	PRO	1057	-30.962	0.525	13.561	1.00	74.61
ATOM	7540	CA	PRO	1057	-29.887	2.097	15.033	1.00	65.69
ATOM	7541	CB	PRO	1057	-30.194	0.776	15.735	1.00	68.75
ATOM	7542	CG	PRO	1057	-31.379	0.290	14.998	1.00	72.47
ATOM	7543	C	PRO	1057	-28.454	2.547	15.315	1.00	60.07
ATOM	7544	O	PRO	1057	-27.520	2.320	14.541	1.00	52.56
ATOM	7545	N	VAL	1058	-28.305	3.162	16.476	1.00	51.56
ATOM	7546	CA	VAL	1058	-27.032	3.685	16.925	1.00	46.90
ATOM	7547	CB	VAL	1058	-27.252	4.974	17.707	1.00	49.57
ATOM	7548	CG1	VAL	1058	-27.334	6.133	16.750	1.00	37.86
ATOM	7549	CG2	VAL	1058	-28.554	4.870	18.524	1.00	51.33
ATOM	7550	C	VAL	1058	-26.260	2.700	17.781	1.00	39.39
ATOM	7551	O	VAL	1058	-26.791	2.133	18.732	1.00	40.71
ATOM	7552	N	SER	1059	-24.991	2.522	17.450	1.00	34.68
ATOM	7553	CA	SER	1059	-24.143	1.600	18.179	1.00	40.68
ATOM	7554	CB	SER	1059	-23.662	0.469	17.253	1.00	42.56
ATOM	7555	OG	SER	1059	-24.739	-0.262	16.688	1.00	41.39
ATOM	7556	C	SER	1059	-22.934	2.303	18.793	1.00	41.84
ATOM	7557	O	SER	1059	-22.668	3.480	18.539	1.00	43.33
ATOM	7558	N	GLU	1060	-22.219	1.548	19.613	1.00	40.40
ATOM	7559	CA	GLU	1060	-21.016	2.002	20.285	1.00	34.75
ATOM	7560	CB	GLU	1060	-21.360	2.888	21.482	1.00	42.73
ATOM	7561	CG	GLU	1060	-22.704	2.617	22.144	1.00	62.33
ATOM	7562	CD	GLU	1060	-22.788	1.258	22.818	1.00	76.46
ATOM	7563	OE1	GLU	1060	-23.446	0.365	22.240	1.00	82.46
ATOM	7564	OE2	GLU	1060	-22.215	1.086	23.922	1.00	80.87
ATOM	7565	C	GLU	1060	-20.230	0.766	20.709	1.00	28.44
ATOM	7566	O	GLU	1060	-19.925	0.569	21.877	1.00	25.92
ATOM	7567	N	ALA	1061	-19.939	-0.083	19.728	1.00	25.25
ATOM	7568	CA	ALA	1061	-19.191	-1.319	19.930	1.00	19.57
ATOM	7569	CB	ALA	1061	-19.093	-2.084	18.591	1.00	10.06
ATOM	7570	C	ALA	1061	-17.789	-1.077	20.511	1.00	14.44
ATOM	7571	O	ALA	1061	-16.978	-0.368	19.923	1.00	8.52
ATOM	7572	N	ARG	1062	-17.522	-1.630	21.686	1.00	19.24
ATOM	7573	CA	ARG	1062	-16.200	-1.487	22.296	1.00	17.02
ATOM	7574	CB	ARG	1062	-16.224	-2.036	23.714	1.00	2.51
ATOM	7575	CG	ARG	1062	-14.928	-1.884	24.427	1.00	23.96
ATOM	7576	CD	ARG	1062	-14.767	-0.466	24.922	1.00	58.40

ATOM	7577	NE	ARG	1062	-15.837	-0.106	25.856	1.00	80.57
ATOM	7578	CZ	ARG	1062	-16.147	1.141	26.214	1.00	93.93
ATOM	7579	NH1	ARG	1062	-15.469	2.170	25.716	1.00	98.02
ATOM	7580	NH2	ARG	1062	-17.116	1.359	27.101	1.00	95.80
ATOM	7581	C	ARG	1062	-15.227	-2.310	21.443	1.00	20.39
ATOM	7582	O	ARG	1062	-15.515	-3.469	21.136	1.00	27.32
ATOM	7583	N	VAL	1063	-14.102	-1.720	21.026	1.00	23.43
ATOM	7584	CA	VAL	1063	-13.137	-2.453	20.188	1.00	22.08
ATOM	7585	CB	VAL	1063	-12.807	-1.724	18.837	1.00	19.80
ATOM	7586	CG1	VAL	1063	-14.062	-1.447	18.027	1.00	20.42
ATOM	7587	CG2	VAL	1063	-12.052	-0.457	19.088	1.00	11.72
ATOM	7588	C	VAL	1063	-11.821	-2.874	20.850	1.00	19.87
ATOM	7589	O	VAL	1063	-11.087	-3.668	20.270	1.00	26.21
ATOM	7590	N	LEU	1064	-11.500	-2.325	22.021	1.00	17.04
ATOM	7591	CA	LEU	1064	-10.268	-2.693	22.736	1.00	21.04
ATOM	7592	CB	LEU	1064	-9.163	-1.650	22.536	1.00	21.02
ATOM	7593	CG	LEU	1064	-7.736	-2.162	22.267	1.00	22.53
ATOM	7594	CD1	LEU	1064	-7.065	-1.259	21.245	1.00	27.24
ATOM	7595	CD2	LEU	1064	-6.905	-2.243	23.529	1.00	15.98
ATOM	7596	C	LEU	1064	-10.605	-2.841	24.217	1.00	32.85
ATOM	7597	O	LEU	1064	-11.416	-2.072	24.750	1.00	35.08
ATOM	7598	N	GLU	1065	-9.959	-3.792	24.897	1.00	32.73
ATOM	7599	CA	GLU	1065	-10.283	-4.029	26.297	1.00	30.53
ATOM	7600	CB	GLU	1065	-11.306	-5.162	26.364	1.00	36.84
ATOM	7601	CG	GLU	1065	-12.135	-5.198	27.631	1.00	39.86
ATOM	7602	CD	GLU	1065	-13.335	-4.301	27.547	1.00	37.72
ATOM	7603	OE1	GLU	1065	-13.588	-3.531	28.504	1.00	39.00
ATOM	7604	OE2	GLU	1065	-14.028	-4.383	26.514	1.00	32.24
ATOM	7605	C	GLU	1065	-9.148	-4.325	27.280	1.00	30.90
ATOM	7606	O	GLU	1065	-9.421	-4.756	28.398	1.00	22.04
ATOM	7607	N	ASP	1066	-7.898	-4.092	26.874	1.00	31.63
ATOM	7608	CA	ASP	1066	-6.711	-4.329	27.717	1.00	30.86
ATOM	7609	CB	ASP	1066	-5.763	-3.124	27.670	1.00	47.78
ATOM	7610	CG	ASP	1066	-4.670	-3.263	26.622	1.00	50.48
ATOM	7611	OD1	ASP	1066	-4.140	-2.219	26.170	1.00	49.15
ATOM	7612	OD2	ASP	1066	-4.325	-4.413	26.275	1.00	48.12
ATOM	7613	C	ASP	1066	-6.952	-4.708	29.179	1.00	26.51
ATOM	7614	O	ASP	1066	-6.438	-5.719	29.628	1.00	29.91
ATOM	7615	N	ARG	1067	-7.676	-3.865	29.922	1.00	16.33
ATOM	7616	CA	ARG	1067	-8.016	-4.115	31.330	1.00	24.55
ATOM	7617	CB	ARG	1067	-8.401	-5.587	31.552	1.00	27.17
ATOM	7618	CG	ARG	1067	-7.793	-6.267	32.757	1.00	35.42
ATOM	7619	CD	ARG	1067	-6.801	-7.329	32.316	1.00	55.21
ATOM	7620	NE	ARG	1067	-7.456	-8.496	31.720	1.00	73.66
ATOM	7621	CZ	ARG	1067	-7.386	-8.846	30.432	1.00	79.74
ATOM	7622	NH1	ARG	1067	-6.690	-8.121	29.566	1.00	82.71
ATOM	7623	NH2	ARG	1067	-8.004	-9.947	30.011	1.00	80.14
ATOM	7624	C	ARG	1067	-7.033	-3.635	32.397	1.00	24.97
ATOM	7625	O	ARG	1067	-5.874	-4.068	32.443	1.00	23.94
ATOM	7626	N	PRO	1068	-7.514	-2.752	33.300	1.00	26.29
ATOM	7627	CD	PRO	1068	-8.868	-2.167	33.294	1.00	32.90
ATOM	7628	CA	PRO	1068	-6.747	-2.166	34.390	1.00	22.68
ATOM	7629	CB	PRO	1068	-7.831	-1.540	35.274	1.00	22.47
ATOM	7630	CG	PRO	1068	-8.735	-0.972	34.284	1.00	20.31
ATOM	7631	C	PRO	1068	-5.889	-3.129	35.159	1.00	20.99
ATOM	7632	O	PRO	1068	-6.366	-4.149	35.647	1.00	12.96
ATOM	7633	N	LEU	1069	-4.607	-2.787	35.221	1.00	24.90

ATOM	7634	CA	LEU	1069	-3.617	-3.541	35.950	1.00	29.54
ATOM	7635	CB	LEU	1069	-2.220	-3.147	35.490	1.00	24.13
ATOM	7636	CG	LEU	1069	-1.825	-3.979	34.265	1.00	36.12
ATOM	7637	CD1	LEU	1069	-2.599	-3.566	33.014	1.00	35.13
ATOM	7638	CD2	LEU	1069	-0.339	-3.878	34.040	1.00	39.73
ATOM	7639	C	LEU	1069	-3.828	-3.262	37.433	1.00	35.38
ATOM	7640	O	LEU	1069	-4.082	-2.123	37.829	1.00	31.75
ATOM	7641	N	SER	1070	-3.796	-4.325	38.234	1.00	47.04
ATOM	7642	CA	SER	1070	-4.017	-4.245	39.678	1.00	55.07
ATOM	7643	CB	SER	1070	-4.424	-5.623	40.234	1.00	58.32
ATOM	7644	OG	SER	1070	-5.673	-6.060	39.725	1.00	55.90
ATOM	7645	C	SER	1070	-2.835	-3.693	40.473	1.00	56.12
ATOM	7646	O	SER	1070	-2.332	-4.350	41.382	1.00	60.27
ATOM	7647	N	ASP	1071	-2.444	-2.460	40.174	1.00	56.80
ATOM	7648	CA	ASP	1071	-1.337	-1.819	40.868	1.00	58.19
ATOM	7649	CB	ASP	1071	-1.585	-1.810	42.380	1.00	66.50
ATOM	7650	CG	ASP	1071	-2.826	-1.010	42.761	1.00	74.73
ATOM	7651	OD1	ASP	1071	-3.915	-1.610	42.890	1.00	79.31
ATOM	7652	OD2	ASP	1071	-2.716	0.223	42.929	1.00	80.47
ATOM	7653	C	ASP	1071	-0.035	-2.526	40.512	1.00	60.82
ATOM	7654	O	ASP	1071	0.779	-2.880	41.374	1.00	55.49
ATOM	7655	N	LYS	1072	0.111	-2.769	39.214	1.00	64.82
ATOM	7656	CA	LYS	1072	1.288	-3.410	38.648	1.00	69.38
ATOM	7657	CB	LYS	1072	0.876	-4.410	37.552	1.00	71.73
ATOM	7658	CG	LYS	1072	-0.004	-5.569	38.019	1.00	70.45
ATOM	7659	CD	LYS	1072	-0.589	-6.331	36.834	1.00	63.46
ATOM	7660	CE	LYS	1072	-1.237	-7.630	37.270	1.00	64.53
ATOM	7661	NZ	LYS	1072	-2.296	-7.447	38.298	1.00	63.69
ATOM	7662	C	LYS	1072	2.155	-2.303	38.033	1.00	70.17
ATOM	7663	O	LYS	1072	2.218	-2.167	36.809	1.00	73.88
ATOM	7664	N	GLY	1073	2.791	-1.500	38.887	1.00	65.43
ATOM	7665	CA	GLY	1073	3.640	-0.415	38.418	1.00	63.62
ATOM	7666	C	GLY	1073	4.729	-0.854	37.458	1.00	67.20
ATOM	7667	O	GLY	1073	5.010	-0.160	36.479	1.00	63.78
ATOM	7668	N	SER	1074	5.359	-1.990	37.756	1.00	72.04
ATOM	7669	CA	SER	1074	6.412	-2.555	36.912	1.00	75.07
ATOM	7670	CB	SER	1074	7.567	-3.087	37.770	1.00	75.30
ATOM	7671	OG	SER	1074	7.091	-3.915	38.815	1.00	71.87
ATOM	7672	C	SER	1074	5.824	-3.668	36.043	1.00	79.27
ATOM	7673	O	SER	1074	5.838	-4.845	36.417	1.00	78.75
ATOM	7674	N	GLY	1075	5.298	-3.270	34.886	1.00	81.56
ATOM	7675	CA	GLY	1075	4.679	-4.204	33.963	1.00	84.11
ATOM	7676	C	GLY	1075	5.610	-5.170	33.260	1.00	87.04
ATOM	7677	O	GLY	1075	6.111	-4.881	32.168	1.00	84.47
ATOM	7678	N	ASP	1076	5.837	-6.322	33.895	1.00	89.79
ATOM	7679	CA	ASP	1076	6.682	-7.387	33.355	1.00	93.12
ATOM	7680	CB	ASP	1076	7.024	-8.395	34.468	1.00	91.90
ATOM	7681	CG	ASP	1076	7.763	-9.625	33.952	1.00	93.20
ATOM	7682	OD1	ASP	1076	8.952	-9.501	33.579	1.00	92.47
ATOM	7683	OD2	ASP	1076	7.154	-10.721	33.928	1.00	90.55
ATOM	7684	C	ASP	1076	5.889	-8.065	32.233	1.00	92.95
ATOM	7685	O	ASP	1076	5.190	-9.057	32.464	1.00	96.60
ATOM	7686	N	SER	1077	5.984	-7.498	31.031	1.00	94.46
ATOM	7687	CA	SER	1077	5.264	-7.992	29.852	1.00	92.46
ATOM	7688	CB	SER	1077	5.619	-9.461	29.570	1.00	96.10
ATOM	7689	OG	SER	1077	5.209	-9.857	28.269	1.00	98.96
ATOM	7690	C	SER	1077	3.750	-7.815	30.060	1.00	90.67

ATOM	7691	O	SER	1077	2.930	-8.369	29.322	1.00	89.28
ATOM	7692	N	SER	1078	3.401	-7.022	31.074	1.00	90.10
ATOM	7693	CA	SER	1078	2.013	-6.729	31.424	1.00	86.23
ATOM	7694	CB	SER	1078	1.869	-6.537	32.941	1.00	85.45
ATOM	7695	OG	SER	1078	2.178	-7.722	33.651	1.00	81.43
ATOM	7696	C	SER	1078	1.506	-5.481	30.701	1.00	82.98
ATOM	7697	O	SER	1078	0.291	-5.269	30.607	1.00	86.25
ATOM	7698	N	GLN	1079	2.440	-4.661	30.208	1.00	74.62
ATOM	7699	CA	GLN	1079	2.124	-3.429	29.479	1.00	68.29
ATOM	7700	CB	GLN	1079	1.671	-3.746	28.052	1.00	72.86
ATOM	7701	CG	GLN	1079	2.704	-4.475	27.212	1.00	81.97
ATOM	7702	CD	GLN	1079	2.185	-4.821	25.827	1.00	89.38
ATOM	7703	OE1	GLN	1079	1.034	-4.523	25.486	1.00	91.11
ATOM	7704	NE2	GLN	1079	3.034	-5.451	25.021	1.00	92.88
ATOM	7705	C	GLN	1079	1.042	-2.635	30.193	1.00	60.61
ATOM	7706	O	GLN	1079	-0.089	-2.530	29.711	1.00	64.14
ATOM	7707	N	VAL	1080	1.406	-2.095	31.352	1.00	46.55
ATOM	7708	CA	VAL	1080	0.512	-1.315	32.207	1.00	35.50
ATOM	7709	CB	VAL	1080	1.331	-0.419	33.172	1.00	25.93
ATOM	7710	CG1	VAL	1080	2.329	0.419	32.391	1.00	30.78
ATOM	7711	CG2	VAL	1080	0.413	0.459	34.006	1.00	18.73
ATOM	7712	C	VAL	1080	-0.548	-0.465	31.513	1.00	29.97
ATOM	7713	O	VAL	1080	-0.258	0.206	30.523	1.00	33.86
ATOM	7714	N	THR	1081	-1.791	-0.567	31.993	1.00	20.60
ATOM	7715	CA	THR	1081	-2.900	0.232	31.461	1.00	15.93
ATOM	7716	CB	THR	1081	-3.890	-0.568	30.538	1.00	12.39
ATOM	7717	OG1	THR	1081	-4.970	-1.081	31.318	1.00	11.73
ATOM	7718	CG2	THR	1081	-3.189	-1.721	29.804	1.00	2.00
ATOM	7719	C	THR	1081	-3.639	0.782	32.674	1.00	12.15
ATOM	7720	O	THR	1081	-3.757	0.094	33.684	1.00	5.33
ATOM	7721	N	GLN	1082	-4.084	2.035	32.591	1.00	11.61
ATOM	7722	CA	GLN	1082	-4.784	2.674	33.704	1.00	12.39
ATOM	7723	CB	GLN	1082	-3.957	3.806	34.287	1.00	13.14
ATOM	7724	CG	GLN	1082	-2.891	3.318	35.200	1.00	22.74
ATOM	7725	CD	GLN	1082	-2.050	4.432	35.742	1.00	25.48
ATOM	7726	OE1	GLN	1082	-2.049	4.712	36.957	1.00	18.81
ATOM	7727	NE2	GLN	1082	-1.314	5.084	34.849	1.00	27.27
ATOM	7728	C	GLN	1082	-6.153	3.191	33.354	1.00	9.91
ATOM	7729	O	GLN	1082	-6.811	3.841	34.171	1.00	7.13
ATOM	7730	N	VAL	1083	-6.548	2.944	32.116	1.00	11.27
ATOM	7731	CA	VAL	1083	-7.859	3.334	31.626	1.00	24.06
ATOM	7732	CB	VAL	1083	-7.754	4.509	30.633	1.00	23.87
ATOM	7733	CG1	VAL	1083	-8.956	4.553	29.712	1.00	28.84
ATOM	7734	CG2	VAL	1083	-7.663	5.806	31.407	1.00	22.77
ATOM	7735	C	VAL	1083	-8.328	2.052	30.966	1.00	24.17
ATOM	7736	O	VAL	1083	-7.614	1.513	30.128	1.00	23.32
ATOM	7737	N	SER	1084	-9.482	1.534	31.388	1.00	26.58
ATOM	7738	CA	SER	1084	-9.970	0.270	30.855	1.00	25.48
ATOM	7739	CB	SER	1084	-11.086	-0.321	31.696	1.00	26.29
ATOM	7740	OG	SER	1084	-11.499	-1.548	31.120	1.00	24.38
ATOM	7741	C	SER	1084	-10.374	0.247	29.408	1.00	30.70
ATOM	7742	O	SER	1084	-9.650	-0.311	28.586	1.00	42.35
ATOM	7743	N	PRO	1085	-11.558	0.789	29.068	1.00	25.58
ATOM	7744	CD	PRO	1085	-12.566	1.587	29.781	1.00	15.40
ATOM	7745	CA	PRO	1085	-11.860	0.715	27.633	1.00	23.65
ATOM	7746	CB	PRO	1085	-13.256	1.323	27.536	1.00	6.45
ATOM	7747	CG	PRO	1085	-13.784	1.301	28.962	1.00	16.71

ATOM	7748	C	PRO	1085	-10.799	1.572	26.930	1.00	30.52
ATOM	7749	O	PRO	1085	-10.677	2.772	27.181	1.00	37.52
ATOM	7750	N	GLN	1086	-9.958	0.919	26.146	1.00	29.79
ATOM	7751	CA	GLN	1086	-8.884	1.600	25.446	1.00	29.95
ATOM	7752	CB	GLN	1086	-7.764	0.600	25.180	1.00	39.70
ATOM	7753	CG	GLN	1086	-7.567	-0.433	26.264	1.00	46.97
ATOM	7754	CD	GLN	1086	-6.927	0.138	27.509	1.00	65.19
ATOM	7755	OE1	GLN	1086	-7.108	-0.399	28.601	1.00	69.94
ATOM	7756	NE2	GLN	1086	-6.155	1.218	27.354	1.00	71.04
ATOM	7757	C	GLN	1086	-9.321	2.192	24.108	1.00	28.31
ATOM	7758	O	GLN	1086	-8.658	3.082	23.567	1.00	30.85
ATOM	7759	N	ARG	1087	-10.449	1.715	23.589	1.00	21.29
ATOM	7760	CA	ARG	1087	-10.911	2.154	22.285	1.00	11.96
ATOM	7761	CB	ARG	1087	-9.915	1.627	21.251	1.00	5.21
ATOM	7762	CG	ARG	1087	-10.063	2.189	19.881	1.00	16.89
ATOM	7763	CD	ARG	1087	-9.049	1.574	18.931	1.00	21.17
ATOM	7764	NE	ARG	1087	-8.862	2.449	17.775	1.00	30.64
ATOM	7765	CZ	ARG	1087	-8.058	3.515	17.759	1.00	36.61
ATOM	7766	NH1	ARG	1087	-7.340	3.847	18.828	1.00	35.03
ATOM	7767	NH2	ARG	1087	-8.017	4.296	16.690	1.00	47.06
ATOM	7768	C	ARG	1087	-12.324	1.636	21.977	1.00	9.80
ATOM	7769	O	ARG	1087	-12.568	0.435	21.957	1.00	16.04
ATOM	7770	N	ILE	1088	-13.251	2.549	21.730	1.00	5.58
ATOM	7771	CA	ILE	1088	-14.630	2.196	21.416	1.00	8.18
ATOM	7772	CB	ILE	1088	-15.599	2.647	22.574	1.00	8.68
ATOM	7773	CG2	ILE	1088	-15.085	3.878	23.260	1.00	14.42
ATOM	7774	CG1	ILE	1088	-17.030	2.864	22.083	1.00	9.79
ATOM	7775	CD1	ILE	1088	-17.954	3.317	23.182	1.00	13.28
ATOM	7776	C	ILE	1088	-14.993	2.786	20.049	1.00	10.11
ATOM	7777	O	ILE	1088	-14.232	3.573	19.490	1.00	13.38
ATOM	7778	N	ALA	1089	-16.122	2.372	19.482	1.00	9.85
ATOM	7779	CA	ALA	1089	-16.511	2.869	18.175	1.00	8.49
ATOM	7780	CB	ALA	1089	-16.156	1.860	17.123	1.00	2.00
ATOM	7781	C	ALA	1089	-17.977	3.253	18.053	1.00	18.60
ATOM	7782	O	ALA	1089	-18.858	2.399	17.891	1.00	26.60
ATOM	7783	N	LEU	1090	-18.234	4.553	18.075	1.00	21.16
ATOM	7784	CA	LEU	1090	-19.591	5.035	17.952	1.00	14.07
ATOM	7785	CB	LEU	1090	-19.714	6.449	18.497	1.00	17.70
ATOM	7786	CG	LEU	1090	-19.217	6.769	19.893	1.00	20.23
ATOM	7787	CD1	LEU	1090	-19.542	8.206	20.193	1.00	24.55
ATOM	7788	CD2	LEU	1090	-19.882	5.859	20.886	1.00	29.04
ATOM	7789	C	LEU	1090	-20.009	5.085	16.503	1.00	17.93
ATOM	7790	O	LEU	1090	-19.205	5.417	15.620	1.00	8.54
ATOM	7791	N	ARG	1091	-21.267	4.719	16.277	1.00	23.97
ATOM	7792	CA	ARG	1091	-21.900	4.788	14.965	1.00	28.70
ATOM	7793	CB	ARG	1091	-22.299	3.409	14.438	1.00	29.52
ATOM	7794	CG	ARG	1091	-22.816	3.448	13.005	1.00	32.92
ATOM	7795	CD	ARG	1091	-22.688	2.103	12.302	1.00	40.61
ATOM	7796	NE	ARG	1091	-23.038	2.187	10.882	1.00	52.24
ATOM	7797	CZ	ARG	1091	-22.249	2.681	9.925	1.00	53.77
ATOM	7798	NH1	ARG	1091	-21.045	3.147	10.222	1.00	53.87
ATOM	7799	NH2	ARG	1091	-22.667	2.715	8.664	1.00	55.72
ATOM	7800	C	ARG	1091	-23.121	5.614	15.340	1.00	31.31
ATOM	7801	O	ARG	1091	-23.905	5.202	16.196	1.00	30.06
ATOM	7802	N	LEU	1092	-23.235	6.808	14.754	1.00	39.81
ATOM	7803	CA	LEU	1092	-24.319	7.736	15.085	1.00	45.43
ATOM	7804	CB	LEU	1092	-23.712	9.005	15.677	1.00	40.33

ATOM	7805	CG	LEU	1092	-23.241	8.791	17.109	1.00	37.62
ATOM	7806	CD1	LEU	1092	-22.265	9.867	17.534	1.00	40.26
ATOM	7807	CD2	LEU	1092	-24.458	8.751	18.014	1.00	36.36
ATOM	7808	C	LEU	1092	-25.413	8.110	14.077	1.00	48.29
ATOM	7809	O	LEU	1092	-25.152	8.377	12.908	1.00	44.78
ATOM	7810	N	ARG	1093	-26.637	8.177	14.602	1.00	55.53
ATOM	7811	CA	ARG	1093	-27.863	8.524	13.880	1.00	58.09
ATOM	7812	CB	ARG	1093	-29.030	7.749	14.516	1.00	62.40
ATOM	7813	CG	ARG	1093	-30.406	7.882	13.890	1.00	67.04
ATOM	7814	CD	ARG	1093	-30.547	7.021	12.643	1.00	74.59
ATOM	7815	NE	ARG	1093	-31.834	6.323	12.562	1.00	79.11
ATOM	7816	CZ	ARG	1093	-33.030	6.911	12.594	1.00	81.60
ATOM	7817	NH1	ARG	1093	-33.129	8.228	12.714	1.00	87.67
ATOM	7818	NH2	ARG	1093	-34.131	6.179	12.479	1.00	78.63
ATOM	7819	C	ARG	1093	-28.056	10.026	14.103	1.00	56.16
ATOM	7820	O	ARG	1093	-27.578	10.576	15.095	1.00	58.74
ATOM	7821	N	PRO	1094	-28.739	10.714	13.176	1.00	56.28
ATOM	7822	CD	PRO	1094	-29.304	10.220	11.914	1.00	55.55
ATOM	7823	CA	PRO	1094	-28.972	12.156	13.313	1.00	52.74
ATOM	7824	CB	PRO	1094	-29.716	12.502	12.030	1.00	52.36
ATOM	7825	CG	PRO	1094	-30.393	11.211	11.678	1.00	57.10
ATOM	7826	C	PRO	1094	-29.789	12.512	14.543	1.00	50.55
ATOM	7827	O	PRO	1094	-30.896	12.008	14.728	1.00	43.87
ATOM	7828	N	ASP	1095	-29.231	13.395	15.365	1.00	50.59
ATOM	7829	CA	ASP	1095	-29.865	13.848	16.599	1.00	55.21
ATOM	7830	CB	ASP	1095	-31.294	14.362	16.332	1.00	58.04
ATOM	7831	CG	ASP	1095	-31.321	15.682	15.564	1.00	64.65
ATOM	7832	OD1	ASP	1095	-31.597	15.662	14.342	1.00	66.18
ATOM	7833	OD2	ASP	1095	-31.084	16.743	16.189	1.00	62.24
ATOM	7834	C	ASP	1095	-29.910	12.707	17.609	1.00	56.04
ATOM	7835	O	ASP	1095	-30.880	12.584	18.360	1.00	62.28
ATOM	7836	N	ASP	1096	-28.850	11.898	17.657	1.00	52.99
ATOM	7837	CA	ASP	1096	-28.820	10.749	18.567	1.00	51.13
ATOM	7838	CB	ASP	1096	-28.911	9.449	17.757	1.00	49.46
ATOM	7839	CG	ASP	1096	-29.675	8.341	18.480	1.00	52.20
ATOM	7840	OD1	ASP	1096	-29.863	8.409	19.719	1.00	55.09
ATOM	7841	OD2	ASP	1096	-30.093	7.388	17.787	1.00	49.07
ATOM	7842	C	ASP	1096	-27.619	10.679	19.511	1.00	46.78
ATOM	7843	O	ASP	1096	-26.569	11.271	19.264	1.00	50.67
ATOM	7844	N	SER	1097	-27.795	9.930	20.592	1.00	42.09
ATOM	7845	CA	SER	1097	-26.764	9.746	21.593	1.00	40.35
ATOM	7846	CB	SER	1097	-27.190	10.395	22.906	1.00	42.08
ATOM	7847	OG	SER	1097	-28.298	9.719	23.481	1.00	43.83
ATOM	7848	C	SER	1097	-26.557	8.260	21.826	1.00	40.94
ATOM	7849	O	SER	1097	-27.270	7.425	21.268	1.00	42.72
ATOM	7850	N	LYS	1098	-25.602	7.946	22.691	1.00	36.79
ATOM	7851	CA	LYS	1098	-25.270	6.574	23.050	1.00	36.40
ATOM	7852	CB	LYS	1098	-24.562	5.860	21.895	1.00	35.48
ATOM	7853	CG	LYS	1098	-25.426	4.826	21.206	1.00	38.64
ATOM	7854	CD	LYS	1098	-25.929	3.800	22.220	1.00	49.64
ATOM	7855	CE	LYS	1098	-26.988	2.865	21.636	1.00	52.65
ATOM	7856	NZ	LYS	1098	-28.290	3.550	21.370	1.00	50.07
ATOM	7857	C	LYS	1098	-24.353	6.672	24.246	1.00	33.98
ATOM	7858	O	LYS	1098	-23.241	7.172	24.136	1.00	28.24
ATOM	7859	N	ASN	1099	-24.839	6.237	25.401	1.00	37.67
ATOM	7860	CA	ASN	1099	-24.048	6.301	26.626	1.00	41.78
ATOM	7861	CB	ASN	1099	-24.972	6.343	27.853	1.00	45.24

ATOM	7862	CG	ASN	1099	-25.847	5.098	27.982	1.00	54.36
ATOM	7863	OD1	ASN	1099	-26.018	4.557	29.083	1.00	55.37
ATOM	7864	ND2	ASN	1099	-26.408	4.642	26.859	1.00	57.91
ATOM	7865	C	ASN	1099	-23.011	5.180	26.771	1.00	38.62
ATOM	7866	O	ASN	1099	-23.224	4.052	26.314	1.00	41.65
ATOM	7867	N	PHE	1100	-21.872	5.517	27.371	1.00	30.49
ATOM	7868	CA	PHE	1100	-20.804	4.549	27.605	1.00	26.97
ATOM	7869	CB	PHE	1100	-19.917	4.351	26.365	1.00	27.93
ATOM	7870	CG	PHE	1100	-19.236	5.597	25.871	1.00	25.16
ATOM	7871	CD1	PHE	1100	-17.896	5.831	26.163	1.00	31.70
ATOM	7872	CD2	PHE	1100	-19.902	6.487	25.036	1.00	26.96
ATOM	7873	CE1	PHE	1100	-17.227	6.933	25.622	1.00	34.54
ATOM	7874	CE2	PHE	1100	-19.242	7.598	24.489	1.00	23.45
ATOM	7875	CZ	PHE	1100	-17.907	7.818	24.780	1.00	28.33
ATOM	7876	C	PHE	1100	-19.993	4.897	28.848	1.00	24.76
ATOM	7877	O	PHE	1100	-20.319	5.868	29.532	1.00	28.89
ATOM	7878	N	SER	1101	-18.975	4.093	29.167	1.00	18.25
ATOM	7879	CA	SER	1101	-18.172	4.332	30.373	1.00	14.21
ATOM	7880	CB	SER	1101	-18.727	3.518	31.541	1.00	18.89
ATOM	7881	OG	SER	1101	-18.718	2.129	31.252	1.00	39.45
ATOM	7882	C	SER	1101	-16.677	4.069	30.244	1.00	9.81
ATOM	7883	O	SER	1101	-16.227	3.370	29.331	1.00	8.75
ATOM	7884	N	ILE	1102	-15.924	4.592	31.210	1.00	5.30
ATOM	7885	CA	ILE	1102	-14.471	4.460	31.224	1.00	6.96
ATOM	7886	CB	ILE	1102	-13.810	5.646	30.430	1.00	15.05
ATOM	7887	CG2	ILE	1102	-14.154	6.982	31.071	1.00	16.23
ATOM	7888	CG1	ILE	1102	-12.293	5.497	30.351	1.00	25.61
ATOM	7889	CD1	ILE	1102	-11.525	6.276	31.434	1.00	38.15
ATOM	7890	C	ILE	1102	-13.989	4.426	32.666	1.00	4.81
ATOM	7891	O	ILE	1102	-14.496	5.157	33.513	1.00	8.03
ATOM	7892	N	GLN	1103	-13.067	3.515	32.969	1.00	7.55
ATOM	7893	CA	GLN	1103	-12.546	3.420	34.333	1.00	13.85
ATOM	7894	CB	GLN	1103	-12.696	2.002	34.915	1.00	18.24
ATOM	7895	CG	GLN	1103	-14.112	1.476	35.056	1.00	19.13
ATOM	7896	CD	GLN	1103	-14.687	0.997	33.732	1.00	37.19
ATOM	7897	OE1	GLN	1103	-15.822	1.332	33.379	1.00	43.88
ATOM	7898	NE2	GLN	1103	-13.907	0.207	32.994	1.00	36.74
ATOM	7899	C	GLN	1103	-11.079	3.803	34.334	1.00	14.63
ATOM	7900	O	GLN	1103	-10.340	3.449	33.413	1.00	10.85
ATOM	7901	N	VAL	1104	-10.661	4.540	35.360	1.00	14.86
ATOM	7902	CA	VAL	1104	-9.267	4.957	35.468	1.00	18.24
ATOM	7903	CB	VAL	1104	-9.067	6.468	35.105	1.00	17.92
ATOM	7904	CG1	VAL	1104	-10.026	7.336	35.895	1.00	10.96
ATOM	7905	CG2	VAL	1104	-7.605	6.893	35.352	1.00	10.98
ATOM	7906	C	VAL	1104	-8.696	4.635	36.844	1.00	13.84
ATOM	7907	O	VAL	1104	-9.320	4.905	37.881	1.00	4.29
ATOM	7908	N	ARG	1105	-7.515	4.025	36.833	1.00	14.26
ATOM	7909	CA	ARG	1105	-6.846	3.634	38.062	1.00	18.85
ATOM	7910	CB	ARG	1105	-6.759	2.106	38.171	1.00	21.39
ATOM	7911	CG	ARG	1105	-5.876	1.600	39.319	1.00	23.82
ATOM	7912	CD	ARG	1105	-5.874	0.084	39.431	1.00	25.78
ATOM	7913	NE	ARG	1105	-7.189	-0.420	39.813	1.00	28.79
ATOM	7914	CZ	ARG	1105	-7.739	-1.526	39.327	1.00	28.20
ATOM	7915	NH1	ARG	1105	-7.089	-2.266	38.436	1.00	28.01
ATOM	7916	NH2	ARG	1105	-8.962	-1.870	39.704	1.00	22.98
ATOM	7917	C	ARG	1105	-5.457	4.218	38.196	1.00	23.62
ATOM	7918	O	ARG	1105	-4.694	4.288	37.233	1.00	20.39

ATOM	7919	N	GLN	1106	-5.160	4.637	39.419	1.00	23.33
ATOM	7920	CA	GLN	1106	-3.875	5.188	39.786	1.00	17.15
ATOM	7921	CB	GLN	1106	-4.046	6.069	41.023	1.00	25.71
ATOM	7922	CG	GLN	1106	-5.092	7.155	40.885	1.00	18.43
ATOM	7923	CD	GLN	1106	-4.485	8.512	40.595	1.00	19.17
ATOM	7924	OE1	GLN	1106	-3.905	8.735	39.528	1.00	13.23
ATOM	7925	NE2	GLN	1106	-4.615	9.433	41.548	1.00	15.07
ATOM	7926	C	GLN	1106	-3.041	3.955	40.139	1.00	18.41
ATOM	7927	O	GLN	1106	-2.861	3.608	41.315	1.00	15.05
ATOM	7928	N	VAL	1107	-2.605	3.251	39.107	1.00	12.87
ATOM	7929	CA	VAL	1107	-1.806	2.054	39.282	1.00	19.18
ATOM	7930	CB	VAL	1107	-1.308	1.563	37.910	1.00	20.79
ATOM	7931	CG1	VAL	1107	-0.014	0.778	38.031	1.00	27.95
ATOM	7932	CG2	VAL	1107	-2.381	0.705	37.268	1.00	31.71
ATOM	7933	C	VAL	1107	-0.632	2.285	40.235	1.00	23.85
ATOM	7934	O	VAL	1107	0.146	3.222	40.060	1.00	33.37
ATOM	7935	N	GLU	1108	-0.517	1.428	41.246	1.00	26.30
ATOM	7936	CA	GLU	1108	0.557	1.525	42.229	1.00	23.67
ATOM	7937	CB	GLU	1108	0.290	0.584	43.385	1.00	25.24
ATOM	7938	CG	GLU	1108	0.978	0.978	44.657	1.00	42.68
ATOM	7939	CD	GLU	1108	0.087	0.798	45.864	1.00	49.05
ATOM	7940	OE1	GLU	1108	-1.017	0.221	45.722	1.00	53.53
ATOM	7941	OE2	GLU	1108	0.493	1.248	46.958	1.00	56.23
ATOM	7942	C	GLU	1108	1.941	1.229	41.655	1.00	23.33
ATOM	7943	O	GLU	1108	2.078	0.488	40.681	1.00	14.23
ATOM	7944	N	ASP	1109	2.954	1.821	42.287	1.00	30.53
ATOM	7945	CA	ASP	1109	4.358	1.684	41.897	1.00	33.15
ATOM	7946	CB	ASP	1109	4.829	0.239	42.075	1.00	38.76
ATOM	7947	CG	ASP	1109	6.326	0.081	41.864	1.00	49.79
ATOM	7948	OD1	ASP	1109	7.093	0.656	42.668	1.00	55.56
ATOM	7949	OD2	ASP	1109	6.733	-0.596	40.888	1.00	52.28
ATOM	7950	C	ASP	1109	4.670	2.176	40.478	1.00	35.07
ATOM	7951	O	ASP	1109	5.599	1.686	39.832	1.00	35.40
ATOM	7952	N	TYR	1110	3.904	3.154	39.998	1.00	34.69
ATOM	7953	CA	TYR	1110	4.110	3.709	38.661	1.00	30.98
ATOM	7954	CB	TYR	1110	2.972	4.685	38.348	1.00	36.07
ATOM	7955	CG	TYR	1110	2.706	4.895	36.874	1.00	41.64
ATOM	7956	CD1	TYR	1110	2.690	3.822	35.989	1.00	42.94
ATOM	7957	CE1	TYR	1110	2.435	4.010	34.630	1.00	43.15
ATOM	7958	CD2	TYR	1110	2.458	6.169	36.364	1.00	48.45
ATOM	7959	CE2	TYR	1110	2.202	6.369	35.003	1.00	49.14
ATOM	7960	CZ	TYR	1110	2.192	5.283	34.143	1.00	43.64
ATOM	7961	OH	TYR	1110	1.928	5.464	32.802	1.00	42.08
ATOM	7962	C	TYR	1110	5.477	4.415	38.679	1.00	30.41
ATOM	7963	O	TYR	1110	5.798	5.102	39.658	1.00	29.30
ATOM	7964	N	PRO	1111	6.313	4.217	37.629	1.00	26.29
ATOM	7965	CD	PRO	1111	6.012	3.445	36.412	1.00	22.96
ATOM	7966	CA	PRO	1111	7.651	4.822	37.523	1.00	30.49
ATOM	7967	CB	PRO	1111	8.216	4.179	36.256	1.00	20.78
ATOM	7968	CG	PRO	1111	7.030	3.983	35.422	1.00	14.22
ATOM	7969	C	PRO	1111	7.628	6.343	37.410	1.00	39.78
ATOM	7970	O	PRO	1111	6.739	6.896	36.763	1.00	49.23
ATOM	7971	N	VAL	1112	8.596	7.019	38.033	1.00	39.05
ATOM	7972	CA	VAL	1112	8.635	8.481	37.988	1.00	37.72
ATOM	7973	CB	VAL	1112	8.410	9.107	39.400	1.00	34.09
ATOM	7974	CG1	VAL	1112	8.521	10.620	39.343	1.00	30.54
ATOM	7975	CG2	VAL	1112	7.040	8.732	39.938	1.00	31.56

ATOM	7976	C	VAL	1112	9.916	9.061	37.398	1.00	34.77
ATOM	7977	O	VAL	1112	10.987	8.468	37.501	1.00	35.82
ATOM	7978	N	ASP	1113	9.767	10.203	36.729	1.00	35.69
ATOM	7979	CA	ASP	1113	10.882	10.947	36.145	1.00	32.48
ATOM	7980	CB	ASP	1113	10.674	11.217	34.660	1.00	32.53
ATOM	7981	CG	ASP	1113	9.908	10.132	33.974	1.00	38.58
ATOM	7982	OD1	ASP	1113	8.715	9.966	34.303	1.00	38.94
ATOM	7983	OD2	ASP	1113	10.491	9.461	33.099	1.00	44.81
ATOM	7984	C	ASP	1113	10.788	12.282	36.862	1.00	30.39
ATOM	7985	O	ASP	1113	9.684	12.817	37.025	1.00	30.43
ATOM	7986	N	ILE	1114	11.921	12.802	37.322	1.00	25.00
ATOM	7987	CA	ILE	1114	11.919	14.084	38.015	1.00	23.06
ATOM	7988	CB	ILE	1114	12.156	13.961	39.544	1.00	19.79
ATOM	7989	CG2	ILE	1114	12.367	15.350	40.140	1.00	25.28
ATOM	7990	CG1	ILE	1114	10.963	13.289	40.238	1.00	20.73
ATOM	7991	CD1	ILE	1114	11.097	13.189	41.769	1.00	2.00
ATOM	7992	C	ILE	1114	12.967	15.025	37.470	1.00	17.91
ATOM	7993	O	ILE	1114	14.134	14.955	37.859	1.00	19.37
ATOM	7994	N	TYR	1115	12.555	15.899	36.562	1.00	14.89
ATOM	7995	CA	TYR	1115	13.481	16.865	36.024	1.00	12.66
ATOM	7996	CB	TYR	1115	13.176	17.174	34.581	1.00	11.67
ATOM	7997	CG	TYR	1115	14.347	17.800	33.885	1.00	24.18
ATOM	7998	CD1	TYR	1115	15.255	17.015	33.181	1.00	27.26
ATOM	7999	CE1	TYR	1115	16.316	17.588	32.491	1.00	30.05
ATOM	8000	CD2	TYR	1115	14.533	19.183	33.892	1.00	28.04
ATOM	8001	CE2	TYR	1115	15.590	19.767	33.207	1.00	27.63
ATOM	8002	CZ	TYR	1115	16.474	18.964	32.504	1.00	29.11
ATOM	8003	OH	TYR	1115	17.503	19.530	31.799	1.00	21.83
ATOM	8004	C	TYR	1115	13.446	18.132	36.879	1.00	19.12
ATOM	8005	O	TYR	1115	12.378	18.641	37.240	1.00	17.50
ATOM	8006	N	TYR	1116	14.637	18.607	37.224	1.00	23.24
ATOM	8007	CA	TYR	1116	14.810	19.779	38.060	1.00	21.66
ATOM	8008	CB	TYR	1116	15.815	19.463	39.155	1.00	20.17
ATOM	8009	CG	TYR	1116	15.330	19.699	40.560	1.00	23.24
ATOM	8010	CD1	TYR	1116	14.667	18.698	41.265	1.00	20.51
ATOM	8011	CE1	TYR	1116	14.255	18.898	42.586	1.00	28.39
ATOM	8012	CD2	TYR	1116	15.576	20.914	41.207	1.00	32.20
ATOM	8013	CE2	TYR	1116	15.171	21.131	42.532	1.00	31.21
ATOM	8014	CZ	TYR	1116	14.510	20.117	43.219	1.00	33.35
ATOM	8015	OH	TYR	1116	14.093	20.327	44.524	1.00	33.11
ATOM	8016	C	TYR	1116	15.359	20.918	37.227	1.00	28.36
ATOM	8017	O	TYR	1116	16.390	20.772	36.576	1.00	30.43
ATOM	8018	N	LEU	1117	14.634	22.033	37.218	1.00	33.66
ATOM	8019	CA	LEU	1117	15.042	23.236	36.506	1.00	27.50
ATOM	8020	CB	LEU	1117	13.886	23.789	35.675	1.00	21.10
ATOM	8021	CG	LEU	1117	13.646	23.033	34.366	1.00	28.95
ATOM	8022	CD1	LEU	1117	12.432	23.586	33.622	1.00	23.72
ATOM	8023	CD2	LEU	1117	14.898	23.131	33.500	1.00	28.60
ATOM	8024	C	LEU	1117	15.434	24.207	37.602	1.00	30.18
ATOM	8025	O	LEU	1117	14.589	24.638	38.396	1.00	26.89
ATOM	8026	N	MET	1118	16.730	24.501	37.682	1.00	32.93
ATOM	8027	CA	MET	1118	17.237	25.386	38.722	1.00	37.58
ATOM	8028	CB	MET	1118	18.324	24.670	39.542	1.00	46.95
ATOM	8029	CG	MET	1118	19.188	23.654	38.766	1.00	55.00
ATOM	8030	SD	MET	1118	20.342	22.659	39.814	1.00	55.27
ATOM	8031	CE	MET	1118	19.253	21.334	40.389	1.00	52.79
ATOM	8032	C	MET	1118	17.683	26.798	38.330	1.00	38.07

ATOM	8033	O	MET	1118	18.463	26.992	37.395	1.00	33.24
ATOM	8034	N	ASP	1119	17.145	27.778	39.057	1.00	35.95
ATOM	8035	CA	ASP	1119	17.458	29.195	38.871	1.00	32.07
ATOM	8036	CB	ASP	1119	16.500	30.058	39.722	1.00	36.24
ATOM	8037	CG	ASP	1119	16.795	31.553	39.623	1.00	29.83
ATOM	8038	OD1	ASP	1119	16.547	32.308	40.600	1.00	17.25
ATOM	8039	OD2	ASP	1119	17.276	31.970	38.554	1.00	35.49
ATOM	8040	C	ASP	1119	18.886	29.353	39.365	1.00	29.66
ATOM	8041	O	ASP	1119	19.145	29.230	40.556	1.00	26.47
ATOM	8042	N	LEU	1120	19.818	29.579	38.448	1.00	28.08
ATOM	8043	CA	LEU	1120	21.224	29.709	38.829	1.00	30.27
ATOM	8044	CB	LEU	1120	22.088	28.797	37.946	1.00	26.67
ATOM	8045	CG	LEU	1120	22.841	27.670	38.658	1.00	22.37
ATOM	8046	CD1	LEU	1120	21.965	26.950	39.683	1.00	4.95
ATOM	8047	CD2	LEU	1120	23.367	26.705	37.615	1.00	27.19
ATOM	8048	C	LEU	1120	21.763	31.142	38.826	1.00	26.41
ATOM	8049	O	LEU	1120	22.974	31.370	38.737	1.00	25.63
ATOM	8050	N	SER	1121	20.860	32.106	38.939	1.00	24.64
ATOM	8051	CA	SER	1121	21.264	33.497	38.949	1.00	18.72
ATOM	8052	CB	SER	1121	20.083	34.418	38.613	1.00	13.13
ATOM	8053	OG	SER	1121	19.140	34.453	39.663	1.00	10.58
ATOM	8054	C	SER	1121	21.795	33.822	40.330	1.00	23.51
ATOM	8055	O	SER	1121	21.441	33.156	41.314	1.00	17.54
ATOM	8056	N	TYR	1122	22.691	34.808	40.381	1.00	26.06
ATOM	8057	CA	TYR	1122	23.272	35.266	41.636	1.00	29.57
ATOM	8058	CB	TYR	1122	24.174	36.479	41.377	1.00	38.29
ATOM	8059	CG	TYR	1122	25.156	36.767	42.487	1.00	48.89
ATOM	8060	CD1	TYR	1122	26.459	36.263	42.442	1.00	49.38
ATOM	8061	CE1	TYR	1122	27.350	36.471	43.499	1.00	51.83
ATOM	8062	CD2	TYR	1122	24.770	37.498	43.611	1.00	48.49
ATOM	8063	CE2	TYR	1122	25.652	37.713	44.671	1.00	48.72
ATOM	8064	CZ	TYR	1122	26.938	37.197	44.612	1.00	49.99
ATOM	8065	OH	TYR	1122	27.797	37.392	45.676	1.00	53.94
ATOM	8066	C	TYR	1122	22.054	35.691	42.435	1.00	27.84
ATOM	8067	O	TYR	1122	21.238	36.457	41.937	1.00	35.41
ATOM	8068	N	SER	1123	21.908	35.133	43.627	1.00	26.29
ATOM	8069	CA	SER	1123	20.789	35.382	44.552	1.00	29.61
ATOM	8070	CB	SER	1123	19.583	36.096	43.916	1.00	28.41
ATOM	8071	OG	SER	1123	19.032	35.338	42.857	1.00	27.19
ATOM	8072	C	SER	1123	20.367	34.006	44.985	1.00	29.88
ATOM	8073	O	SER	1123	19.707	33.834	45.981	1.00	21.42
ATOM	8074	N	MET	1124	20.716	33.020	44.181	1.00	34.33
ATOM	8075	CA	MET	1124	20.407	31.659	44.528	1.00	38.33
ATOM	8076	CB	MET	1124	20.257	30.843	43.249	1.00	38.50
ATOM	8077	CG	MET	1124	18.913	31.105	42.591	1.00	35.64
ATOM	8078	SD	MET	1124	17.551	30.561	43.641	1.00	27.12
ATOM	8079	CE	MET	1124	17.212	29.004	42.938	1.00	37.68
ATOM	8080	C	MET	1124	21.582	31.191	45.385	1.00	41.15
ATOM	8081	O	MET	1124	21.473	30.225	46.132	1.00	40.41
ATOM	8082	N	LYS	1125	22.656	31.974	45.354	1.00	45.52
ATOM	8083	CA	LYS	1125	23.887	31.694	46.083	1.00	47.25
ATOM	8084	CB	LYS	1125	24.771	32.941	46.060	1.00	48.54
ATOM	8085	CG	LYS	1125	26.185	32.731	46.556	1.00	55.38
ATOM	8086	CD	LYS	1125	26.929	34.049	46.677	1.00	58.64
ATOM	8087	CE	LYS	1125	28.392	33.828	47.014	1.00	61.59
ATOM	8088	NZ	LYS	1125	29.088	35.128	47.218	1.00	69.01
ATOM	8089	C	LYS	1125	23.589	31.263	47.526	1.00	49.49

ATOM	8090	O	LYS	1125	24.106	30.246	48.029	1.00	50.99
ATOM	8091	N	ASP	1126	22.692	31.997	48.162	1.00	47.48
ATOM	8092	CA	ASP	1126	22.338	31.675	49.529	1.00	53.07
ATOM	8093	CB	ASP	1126	21.827	32.945	50.223	1.00	59.24
ATOM	8094	CG	ASP	1126	20.669	33.605	49.480	1.00	61.74
ATOM	8095	OD1	ASP	1126	20.547	33.356	48.258	1.00	63.17
ATOM	8096	OD2	ASP	1126	19.893	34.370	50.115	1.00	61.63
ATOM	8097	C	ASP	1126	21.359	30.468	49.699	1.00	55.94
ATOM	8098	O	ASP	1126	21.384	29.776	50.738	1.00	59.33
ATOM	8099	N	ASP	1127	20.496	30.232	48.711	1.00	53.48
ATOM	8100	CA	ASP	1127	19.502	29.148	48.767	1.00	48.35
ATOM	8101	CB	ASP	1127	18.171	29.673	48.257	1.00	46.81
ATOM	8102	CG	ASP	1127	18.072	31.158	48.328	1.00	49.90
ATOM	8103	OD1	ASP	1127	18.601	31.776	47.369	1.00	44.77
ATOM	8104	OD2	ASP	1127	17.438	31.693	49.277	1.00	53.49
ATOM	8105	C	ASP	1127	19.887	27.947	47.896	1.00	48.94
ATOM	8106	O	ASP	1127	19.021	27.275	47.307	1.00	57.11
ATOM	8107	N	LEU	1128	21.180	27.792	47.676	1.00	47.51
ATOM	8108	CA	LEU	1128	21.666	26.712	46.849	1.00	49.66
ATOM	8109	CB	LEU	1128	22.232	27.279	45.533	1.00	40.84
ATOM	8110	CG	LEU	1128	23.668	27.106	45.047	1.00	25.75
ATOM	8111	CD1	LEU	1128	23.703	26.826	43.578	1.00	26.97
ATOM	8112	CD2	LEU	1128	24.442	28.319	45.380	1.00	20.63
ATOM	8113	C	LEU	1128	22.680	25.910	47.630	1.00	55.14
ATOM	8114	O	LEU	1128	22.574	25.801	48.881	1.00	53.35
ATOM	8115	N	TRP	1129	23.574	25.282	46.853	1.00	65.06
ATOM	8116	CA	TRP	1129	24.688	24.445	47.281	1.00	71.09
ATOM	8117	CB	TRP	1129	25.299	24.967	48.589	1.00	79.53
ATOM	8118	CG	TRP	1129	26.771	25.380	48.561	1.00	86.63
ATOM	8119	CD2	TRP	1129	27.728	25.301	47.464	1.00	91.21
ATOM	8120	CE2	TRP	1129	28.933	25.895	47.933	1.00	90.78
ATOM	8121	CE3	TRP	1129	27.693	24.800	46.138	1.00	91.64
ATOM	8122	CD1	TRP	1129	27.431	25.981	49.591	1.00	86.08
ATOM	8123	NE1	TRP	1129	28.717	26.294	49.228	1.00	89.57
ATOM	8124	CZ2	TRP	1129	30.097	26.006	47.131	1.00	90.78
ATOM	8125	CZ3	TRP	1129	28.875	24.914	45.324	1.00	90.32
ATOM	8126	CH2	TRP	1129	30.049	25.520	45.836	1.00	90.20
ATOM	8127	C	TRP	1129	24.269	23.017	47.450	1.00	69.58
ATOM	8128	O	TRP	1129	23.300	22.550	46.832	1.00	63.54
ATOM	8129	N	SER	1130	25.074	22.374	48.294	1.00	70.12
ATOM	8130	CA	SER	1130	24.974	21.007	48.748	1.00	70.36
ATOM	8131	CB	SER	1130	25.131	21.009	50.283	1.00	74.86
ATOM	8132	OG	SER	1130	26.110	21.950	50.760	1.00	69.28
ATOM	8133	C	SER	1130	23.622	20.443	48.331	1.00	69.50
ATOM	8134	O	SER	1130	22.669	20.334	49.113	1.00	69.57
ATOM	8135	N	ILE	1131	23.530	20.194	47.034	1.00	71.71
ATOM	8136	CA	ILE	1131	22.320	19.682	46.472	1.00	70.27
ATOM	8137	CB	ILE	1131	21.818	20.582	45.249	1.00	68.00
ATOM	8138	CG2	ILE	1131	21.809	19.843	43.939	1.00	68.16
ATOM	8139	CG1	ILE	1131	20.447	21.216	45.571	1.00	62.76
ATOM	8140	CD1	ILE	1131	20.218	22.625	44.963	1.00	63.91
ATOM	8141	C	ILE	1131	22.548	18.188	46.262	1.00	73.15
ATOM	8142	O	ILE	1131	22.178	17.600	45.248	1.00	68.11
ATOM	8143	N	GLN	1132	23.175	17.591	47.290	1.00	73.67
ATOM	8144	CA	GLN	1132	23.395	16.148	47.369	1.00	75.11
ATOM	8145	CB	GLN	1132	24.441	15.752	48.425	1.00	78.58
ATOM	8146	CG	GLN	1132	25.356	16.841	48.947	1.00	84.33

ATOM	8147	CD	GLN	1132	25.306	16.881	50.481	1.00	85.03
ATOM	8148	OE1	GLN	1132	25.651	15.887	51.130	1.00	85.62
ATOM	8149	NE2	GLN	1132	24.707	17.941	51.041	1.00	83.40
ATOM	8150	C	GLN	1132	22.025	15.794	47.892	1.00	72.15
ATOM	8151	O	GLN	1132	21.468	14.753	47.576	1.00	68.54
ATOM	8152	N	ASN	1133	21.492	16.708	48.710	1.00	72.00
ATOM	8153	CA	ASN	1133	20.147	16.629	49.290	1.00	71.79
ATOM	8154	CB	ASN	1133	19.603	18.047	49.524	1.00	73.50
ATOM	8155	CG	ASN	1133	19.358	18.395	50.982	1.00	75.58
ATOM	8156	OD1	ASN	1133	20.174	18.096	51.853	1.00	85.11
ATOM	8157	ND2	ASN	1133	18.278	19.132	51.229	1.00	72.23
ATOM	8158	C	ASN	1133	19.261	15.984	48.212	1.00	72.67
ATOM	8159	O	ASN	1133	18.353	15.214	48.509	1.00	68.03
ATOM	8160	N	LEU	1134	19.599	16.200	46.945	1.00	76.30
ATOM	8161	CA	LEU	1134	18.761	15.655	45.909	1.00	79.59
ATOM	8162	CB	LEU	1134	18.701	16.657	44.781	1.00	79.25
ATOM	8163	CG	LEU	1134	17.628	17.733	44.954	1.00	76.63
ATOM	8164	CD1	LEU	1134	17.823	18.405	46.307	1.00	71.77
ATOM	8165	CD2	LEU	1134	17.672	18.732	43.761	1.00	75.55
ATOM	8166	C	LEU	1134	19.020	14.212	45.446	1.00	80.26
ATOM	8167	O	LEU	1134	18.262	13.297	45.853	1.00	83.92
ATOM	8168	N	GLY	1135	20.059	13.987	44.634	1.00	76.31
ATOM	8169	CA	GLY	1135	20.378	12.633	44.202	1.00	72.73
ATOM	8170	C	GLY	1135	20.093	11.661	45.326	1.00	70.23
ATOM	8171	O	GLY	1135	19.410	10.672	45.077	1.00	72.73
ATOM	8172	N	THR	1136	20.424	12.026	46.566	1.00	66.26
ATOM	8173	CA	THR	1136	20.171	11.168	47.712	1.00	67.44
ATOM	8174	CB	THR	1136	21.393	11.146	48.716	1.00	68.95
ATOM	8175	OG1	THR	1136	21.574	12.443	49.296	1.00	70.08
ATOM	8176	CG2	THR	1136	22.680	10.751	47.964	1.00	71.26
ATOM	8177	C	THR	1136	18.844	11.412	48.472	1.00	68.52
ATOM	8178	O	THR	1136	18.449	10.519	49.231	1.00	68.78
ATOM	8179	N	LYS	1137	18.151	12.547	48.364	1.00	69.19
ATOM	8180	CA	LYS	1137	16.885	12.596	49.118	1.00	72.68
ATOM	8181	CB	LYS	1137	16.763	13.811	50.029	1.00	75.89
ATOM	8182	CG	LYS	1137	17.609	13.769	51.300	1.00	79.44
ATOM	8183	CD	LYS	1137	19.122	13.633	51.021	1.00	73.15
ATOM	8184	CE	LYS	1137	19.998	13.781	52.282	1.00	67.47
ATOM	8185	NZ	LYS	1137	21.480	13.723	52.002	1.00	64.98
ATOM	8186	C	LYS	1137	15.695	12.537	48.179	1.00	73.50
ATOM	8187	O	LYS	1137	14.568	12.198	48.548	1.00	74.20
ATOM	8188	N	LEU	1138	15.940	12.960	46.958	1.00	69.52
ATOM	8189	CA	LEU	1138	14.968	12.944	45.881	1.00	69.05
ATOM	8190	CB	LEU	1138	15.684	13.535	44.669	1.00	72.18
ATOM	8191	CG	LEU	1138	15.241	13.560	43.225	1.00	75.34
ATOM	8192	CD1	LEU	1138	14.498	14.835	42.877	1.00	80.89
ATOM	8193	CD2	LEU	1138	16.524	13.505	42.456	1.00	78.30
ATOM	8194	C	LEU	1138	14.740	11.436	45.722	1.00	64.18
ATOM	8195	O	LEU	1138	13.607	10.953	45.635	1.00	65.14
ATOM	8196	N	ALA	1139	15.831	10.683	45.816	1.00	62.47
ATOM	8197	CA	ALA	1139	15.747	9.241	45.691	1.00	59.26
ATOM	8198	CB	ALA	1139	17.085	8.650	45.334	1.00	51.53
ATOM	8199	C	ALA	1139	15.162	8.548	46.914	1.00	56.84
ATOM	8200	O	ALA	1139	14.124	7.884	46.795	1.00	57.77
ATOM	8201	N	THR	1140	15.737	8.747	48.101	1.00	59.45
ATOM	8202	CA	THR	1140	15.158	8.023	49.250	1.00	66.10
ATOM	8203	CB	THR	1140	15.820	8.291	50.650	1.00	68.65

ATOM	8204	OG1	THR	1140	15.134	9.388	51.300	1.00	68.80
ATOM	8205	CG2	THR	1140	17.408	8.486	50.557	1.00	72.85
ATOM	8206	C	THR	1140	13.678	8.268	49.518	1.00	63.36
ATOM	8207	O	THR	1140	12.879	7.329	49.692	1.00	68.75
ATOM	8208	N	GLN	1141	13.311	9.533	49.611	1.00	60.50
ATOM	8209	CA	GLN	1141	11.944	9.794	49.937	1.00	61.95
ATOM	8210	CB	GLN	1141	11.769	11.162	50.543	1.00	65.47
ATOM	8211	CG	GLN	1141	12.141	11.141	52.008	1.00	69.92
ATOM	8212	CD	GLN	1141	11.345	12.135	52.821	1.00	72.24
ATOM	8213	OE1	GLN	1141	11.529	12.246	54.032	1.00	74.49
ATOM	8214	NE2	GLN	1141	10.443	12.863	52.162	1.00	69.31
ATOM	8215	C	GLN	1141	10.932	9.479	48.874	1.00	62.52
ATOM	8216	O	GLN	1141	9.741	9.425	49.152	1.00	66.39
ATOM	8217	N	MET	1142	11.396	9.194	47.670	1.00	60.73
ATOM	8218	CA	MET	1142	10.457	8.837	46.627	1.00	57.88
ATOM	8219	CB	MET	1142	10.867	9.447	45.280	1.00	60.50
ATOM	8220	CG	MET	1142	10.566	10.940	45.149	1.00	56.39
ATOM	8221	SD	MET	1142	8.813	11.301	45.363	1.00	57.58
ATOM	8222	CE	MET	1142	8.140	10.511	43.859	1.00	56.83
ATOM	8223	C	MET	1142	10.366	7.317	46.539	1.00	55.06
ATOM	8224	O	MET	1142	9.358	6.776	46.092	1.00	47.48
ATOM	8225	N	ARG	1143	11.403	6.645	47.034	1.00	59.34
ATOM	8226	CA	ARG	1143	11.500	5.187	47.013	1.00	66.19
ATOM	8227	CB	ARG	1143	12.721	4.719	47.809	1.00	73.30
ATOM	8228	CG	ARG	1143	13.787	4.003	46.980	1.00	79.66
ATOM	8229	CD	ARG	1143	15.198	4.549	47.253	1.00	83.50
ATOM	8230	NE	ARG	1143	15.860	4.009	48.448	1.00	88.39
ATOM	8231	CZ	ARG	1143	15.577	4.337	49.712	1.00	94.28
ATOM	8232	NH1	ARG	1143	14.618	5.206	49.990	1.00	98.15
ATOM	8233	NH2	ARG	1143	16.302	3.839	50.710	1.00	97.15
ATOM	8234	C	ARG	1143	10.266	4.476	47.532	1.00	64.83
ATOM	8235	O	ARG	1143	9.891	3.424	47.016	1.00	67.93
ATOM	8236	N	LYS	1144	9.631	5.050	48.545	1.00	60.38
ATOM	8237	CA	LYS	1144	8.442	4.439	49.115	1.00	60.71
ATOM	8238	CB	LYS	1144	8.096	5.102	50.439	1.00	67.53
ATOM	8239	CG	LYS	1144	7.768	6.568	50.288	1.00	81.28
ATOM	8240	CD	LYS	1144	7.305	7.173	51.599	1.00	83.68
ATOM	8241	CE	LYS	1144	6.879	8.627	51.405	1.00	84.51
ATOM	8242	NZ	LYS	1144	6.466	9.296	52.677	1.00	83.11
ATOM	8243	C	LYS	1144	7.237	4.489	48.173	1.00	54.79
ATOM	8244	O	LYS	1144	6.260	3.773	48.381	1.00	55.05
ATOM	8245	N	LEU	1145	7.296	5.344	47.153	1.00	52.60
ATOM	8246	CA	LEU	1145	6.199	5.462	46.190	1.00	43.99
ATOM	8247	CB	LEU	1145	5.821	6.921	45.952	1.00	39.00
ATOM	8248	CG	LEU	1145	4.575	7.375	46.699	1.00	34.91
ATOM	8249	CD1	LEU	1145	4.840	7.312	48.183	1.00	36.03
ATOM	8250	CD2	LEU	1145	4.202	8.787	46.289	1.00	38.42
ATOM	8251	C	LEU	1145	6.468	4.799	44.850	1.00	44.14
ATOM	8252	O	LEU	1145	5.538	4.351	44.183	1.00	49.25
ATOM	8253	N	THR	1146	7.730	4.749	44.447	1.00	42.52
ATOM	8254	CA	THR	1146	8.079	4.141	43.175	1.00	50.59
ATOM	8255	CB	THR	1146	8.336	5.217	42.083	1.00	54.45
ATOM	8256	OG1	THR	1146	8.879	4.607	40.898	1.00	54.13
ATOM	8257	CG2	THR	1146	9.300	6.277	42.593	1.00	61.92
ATOM	8258	C	THR	1146	9.280	3.210	43.267	1.00	56.54
ATOM	8259	O	THR	1146	9.981	3.161	44.279	1.00	56.78
ATOM	8260	N	SER	1147	9.490	2.464	42.189	1.00	60.38

ATOM	8261	CA	SER	1147	10.583	1.515	42.074	1.00	65.73
ATOM	8262	CB	SER	1147	10.041	0.124	41.736	1.00	68.84
ATOM	8263	OG	SER	1147	11.065	-0.729	41.255	1.00	73.60
ATOM	8264	C	SER	1147	11.542	1.960	40.982	1.00	67.37
ATOM	8265	O	SER	1147	12.755	1.801	41.123	1.00	67.67
ATOM	8266	N	ASN	1148	10.992	2.457	39.871	1.00	65.98
ATOM	8267	CA	ASN	1148	11.820	2.928	38.763	1.00	65.91
ATOM	8268	CB	ASN	1148	11.377	2.315	37.431	1.00	62.00
ATOM	8269	CG	ASN	1148	12.444	2.440	36.340	1.00	61.47
ATOM	8270	OD1	ASN	1148	12.405	1.722	35.340	1.00	61.78
ATOM	8271	ND2	ASN	1148	13.398	3.349	36.530	1.00	58.03
ATOM	8272	C	ASN	1148	11.787	4.452	38.699	1.00	65.79
ATOM	8273	O	ASN	1148	10.885	5.053	38.112	1.00	63.84
ATOM	8274	N	LEU	1149	12.775	5.062	39.348	1.00	61.97
ATOM	8275	CA	LEU	1149	12.908	6.507	39.394	1.00	56.78
ATOM	8276	CB	LEU	1149	12.953	7.011	40.848	1.00	52.01
ATOM	8277	CG	LEU	1149	13.493	8.432	41.119	1.00	44.50
ATOM	8278	CD1	LEU	1149	12.651	9.480	40.416	1.00	48.84
ATOM	8279	CD2	LEU	1149	13.537	8.718	42.606	1.00	36.14
ATOM	8280	C	LEU	1149	14.165	6.952	38.672	1.00	55.42
ATOM	8281	O	LEU	1149	15.264	6.475	38.956	1.00	57.09
ATOM	8282	N	ARG	1150	13.980	7.825	37.695	1.00	50.20
ATOM	8283	CA	ARG	1150	15.095	8.387	36.964	1.00	47.30
ATOM	8284	CB	ARG	1150	14.987	8.122	35.458	1.00	52.12
ATOM	8285	CG	ARG	1150	15.342	6.695	35.059	1.00	53.47
ATOM	8286	CD	ARG	1150	15.525	6.585	33.559	1.00	58.88
ATOM	8287	NE	ARG	1150	15.677	5.199	33.121	1.00	68.81
ATOM	8288	CZ	ARG	1150	15.510	4.791	31.863	1.00	74.66
ATOM	8289	NH1	ARG	1150	15.185	5.662	30.911	1.00	75.00
ATOM	8290	NH2	ARG	1150	15.643	3.506	31.556	1.00	78.34
ATOM	8291	C	ARG	1150	15.030	9.871	37.268	1.00	40.76
ATOM	8292	O	ARG	1150	13.948	10.417	37.494	1.00	34.81
ATOM	8293	N	ILE	1151	16.192	10.502	37.347	1.00	38.50
ATOM	8294	CA	ILE	1151	16.256	11.924	37.649	1.00	34.58
ATOM	8295	CB	ILE	1151	16.715	12.166	39.114	1.00	22.96
ATOM	8296	CG2	ILE	1151	15.693	11.580	40.067	1.00	16.60
ATOM	8297	CG1	ILE	1151	18.086	11.533	39.358	1.00	14.33
ATOM	8298	CD1	ILE	1151	18.516	11.519	40.805	1.00	7.26
ATOM	8299	C	ILE	1151	17.152	12.673	36.669	1.00	34.87
ATOM	8300	O	ILE	1151	18.073	12.093	36.084	1.00	35.06
ATOM	8301	N	GLY	1152	16.833	13.947	36.461	1.00	33.19
ATOM	8302	CA	GLY	1152	17.593	14.789	35.554	1.00	35.40
ATOM	8303	C	GLY	1152	17.424	16.245	35.930	1.00	35.79
ATOM	8304	O	GLY	1152	16.467	16.602	36.610	1.00	38.92
ATOM	8305	N	PHE	1153	18.350	17.097	35.505	1.00	35.23
ATOM	8306	CA	PHE	1153	18.250	18.512	35.836	1.00	34.23
ATOM	8307	CB	PHE	1153	18.799	18.786	37.245	1.00	32.94
ATOM	8308	CG	PHE	1153	20.295	18.902	37.303	1.00	44.86
ATOM	8309	CD1	PHE	1153	20.898	20.135	37.516	1.00	50.29
ATOM	8310	CD2	PHE	1153	21.107	17.785	37.109	1.00	54.70
ATOM	8311	CE1	PHE	1153	22.288	20.256	37.528	1.00	59.59
ATOM	8312	CE2	PHE	1153	22.501	17.895	37.118	1.00	58.09
ATOM	8313	CZ	PHE	1153	23.090	19.130	37.326	1.00	60.45
ATOM	8314	C	PHE	1153	18.896	19.470	34.834	1.00	32.47
ATOM	8315	O	PHE	1153	19.759	19.102	34.023	1.00	28.07
ATOM	8316	N	GLY	1154	18.435	20.709	34.906	1.00	30.00
ATOM	8317	CA	GLY	1154	18.932	21.761	34.053	1.00	17.66

ATOM	8318	C	GLY	1154	18.840	23.047	34.840	1.00	17.91
ATOM	8319	O	GLY	1154	18.202	23.116	35.897	1.00	9.29
ATOM	8320	N	ALA	1155	19.525	24.067	34.356	1.00	21.40
ATOM	8321	CA	ALA	1155	19.480	25.341	35.032	1.00	20.67
ATOM	8322	CB	ALA	1155	20.693	25.527	35.920	1.00	14.35
ATOM	8323	C	ALA	1155	19.334	26.481	34.027	1.00	22.29
ATOM	8324	O	ALA	1155	19.540	26.314	32.811	1.00	13.95
ATOM	8325	N	PHE	1156	18.918	27.627	34.556	1.00	25.26
ATOM	8326	CA	PHE	1156	18.689	28.818	33.767	1.00	20.72
ATOM	8327	CB	PHE	1156	17.208	28.882	33.363	1.00	18.17
ATOM	8328	CG	PHE	1156	16.259	29.014	34.531	1.00	14.67
ATOM	8329	CD1	PHE	1156	15.893	30.262	35.015	1.00	19.24
ATOM	8330	CD2	PHE	1156	15.750	27.896	35.158	1.00	13.93
ATOM	8331	CE1	PHE	1156	15.040	30.392	36.106	1.00	13.58
ATOM	8332	CE2	PHE	1156	14.897	28.022	36.249	1.00	16.86
ATOM	8333	CZ	PHE	1156	14.543	29.273	36.721	1.00	11.32
ATOM	8334	C	PHE	1156	19.051	30.066	34.572	1.00	23.59
ATOM	8335	O	PHE	1156	19.190	30.029	35.808	1.00	17.38
ATOM	8336	N	VAL	1157	19.200	31.168	33.844	1.00	23.00
ATOM	8337	CA	VAL	1157	19.494	32.461	34.432	1.00	17.12
ATOM	8338	CB	VAL	1157	20.976	32.832	34.277	1.00	15.24
ATOM	8339	CG1	VAL	1157	21.392	32.696	32.823	1.00	8.40
ATOM	8340	CG2	VAL	1157	21.231	34.229	34.849	1.00	7.95
ATOM	8341	C	VAL	1157	18.539	33.474	33.782	1.00	11.33
ATOM	8342	O	VAL	1157	17.570	33.844	34.419	1.00	2.00
ATOM	8343	N	ASP	1158	18.754	33.846	32.516	1.00	3.43
ATOM	8344	CA	ASP	1158	17.868	34.784	31.800	1.00	2.00
ATOM	8345	CB	ASP	1158	17.816	36.142	32.481	1.00	2.40
ATOM	8346	CG	ASP	1158	16.534	36.907	32.180	1.00	9.84
ATOM	8347	OD1	ASP	1158	15.943	36.706	31.093	1.00	2.00
ATOM	8348	OD2	ASP	1158	16.107	37.711	33.047	1.00	9.58
ATOM	8349	C	ASP	1158	18.338	34.989	30.371	1.00	2.00
ATOM	8350	O	ASP	1158	19.357	34.441	29.972	1.00	2.00
ATOM	8351	N	LYS	1159	17.617	35.792	29.602	1.00	2.00
ATOM	8352	CA	LYS	1159	18.000	36.027	28.227	1.00	6.31
ATOM	8353	CB	LYS	1159	16.891	36.745	27.473	1.00	10.20
ATOM	8354	CG	LYS	1159	15.953	35.824	26.706	1.00	20.36
ATOM	8355	CD	LYS	1159	14.680	36.554	26.282	1.00	15.18
ATOM	8356	CE	LYS	1159	13.794	35.700	25.407	1.00	17.96
ATOM	8357	NZ	LYS	1159	13.415	34.406	26.034	1.00	19.36
ATOM	8358	C	LYS	1159	19.295	36.816	28.156	1.00	16.45
ATOM	8359	O	LYS	1159	19.325	38.032	28.424	1.00	9.52
ATOM	8360	N	PRO	1160	20.400	36.118	27.817	1.00	19.30
ATOM	8361	CD	PRO	1160	20.439	34.724	27.329	1.00	12.51
ATOM	8362	CA	PRO	1160	21.723	36.738	27.709	1.00	16.19
ATOM	8363	CB	PRO	1160	22.612	35.553	27.328	1.00	6.63
ATOM	8364	CG	PRO	1160	21.690	34.709	26.495	1.00	3.20
ATOM	8365	C	PRO	1160	21.676	37.803	26.614	1.00	18.49
ATOM	8366	O	PRO	1160	22.129	37.580	25.490	1.00	21.10
ATOM	8367	N	VAL	1161	21.091	38.950	26.944	1.00	16.66
ATOM	8368	CA	VAL	1161	20.972	40.020	25.973	1.00	17.97
ATOM	8369	CB	VAL	1161	19.882	39.661	24.906	1.00	13.50
ATOM	8370	CG1	VAL	1161	18.499	40.172	25.316	1.00	4.05
ATOM	8371	CG2	VAL	1161	20.292	40.168	23.536	1.00	15.58
ATOM	8372	C	VAL	1161	20.730	41.408	26.584	1.00	19.02
ATOM	8373	O	VAL	1161	20.414	41.552	27.777	1.00	9.73
ATOM	8374	N	SER	1162	20.912	42.414	25.731	1.00	23.38

ATOM	8375	CA	SER	1162	20.757	43.829	26.048	1.00	30.70
ATOM	8376	CB	SER	1162	19.872	44.536	25.009	1.00	35.77
ATOM	8377	OG	SER	1162	18.754	43.749	24.646	1.00	36.33
ATOM	8378	C	SER	1162	20.429	44.294	27.469	1.00	30.70
ATOM	8379	O	SER	1162	21.358	44.558	28.236	1.00	46.92
ATOM	8380	N	PRO	1163	19.141	44.320	27.883	1.00	16.66
ATOM	8381	CD	PRO	1163	17.858	43.964	27.273	1.00	2.14
ATOM	8382	CA	PRO	1163	18.930	44.801	29.256	1.00	10.21
ATOM	8383	CB	PRO	1163	17.428	45.090	29.296	1.00	2.00
ATOM	8384	CG	PRO	1163	16.987	45.015	27.832	1.00	6.93
ATOM	8385	C	PRO	1163	19.314	43.838	30.363	1.00	12.88
ATOM	8386	O	PRO	1163	20.049	44.184	31.282	1.00	16.55
ATOM	8387	N	TYR	1164	18.841	42.608	30.225	1.00	19.20
ATOM	8388	CA	TYR	1164	19.020	41.543	31.208	1.00	13.40
ATOM	8389	CB	TYR	1164	18.290	40.301	30.703	1.00	10.10
ATOM	8390	CG	TYR	1164	16.934	40.630	30.110	1.00	2.00
ATOM	8391	CD1	TYR	1164	16.646	40.365	28.769	1.00	2.00
ATOM	8392	CE1	TYR	1164	15.404	40.687	28.218	1.00	2.00
ATOM	8393	CD2	TYR	1164	15.947	41.227	30.891	1.00	2.00
ATOM	8394	CE2	TYR	1164	14.710	41.558	30.352	1.00	8.37
ATOM	8395	CZ	TYR	1164	14.441	41.285	29.017	1.00	6.05
ATOM	8396	OH	TYR	1164	13.203	41.623	28.518	1.00	9.56
ATOM	8397	C	TYR	1164	20.448	41.200	31.533	1.00	10.17
ATOM	8398	O	TYR	1164	20.839	41.150	32.697	1.00	2.00
ATOM	8399	N	MET	1165	21.224	40.987	30.478	1.00	18.57
ATOM	8400	CA	MET	1165	22.622	40.602	30.597	1.00	24.71
ATOM	8401	CB	MET	1165	23.103	40.054	29.259	1.00	17.87
ATOM	8402	CG	MET	1165	24.483	39.462	29.284	1.00	8.04
ATOM	8403	SD	MET	1165	24.864	38.810	27.667	1.00	15.50
ATOM	8404	CE	MET	1165	26.293	37.927	28.063	1.00	19.93
ATOM	8405	C	MET	1165	23.519	41.744	31.009	1.00	29.70
ATOM	8406	O	MET	1165	23.146	42.914	30.830	1.00	34.22
ATOM	8407	N	TYR	1166	24.678	41.410	31.595	1.00	30.43
ATOM	8408	CA	TYR	1166	25.633	42.442	31.978	1.00	25.38
ATOM	8409	CB	TYR	1166	26.660	41.982	33.010	1.00	5.18
ATOM	8410	CG	TYR	1166	26.262	42.509	34.368	1.00	10.01
ATOM	8411	CD1	TYR	1166	26.626	43.786	34.783	1.00	10.35
ATOM	8412	CE1	TYR	1166	26.117	44.332	35.977	1.00	9.26
ATOM	8413	CD2	TYR	1166	25.398	41.788	35.187	1.00	17.01
ATOM	8414	CE2	TYR	1166	24.888	42.328	36.377	1.00	2.98
ATOM	8415	CZ	TYR	1166	25.243	43.590	36.760	1.00	2.00
ATOM	8416	OH	TYR	1166	24.680	44.119	37.899	1.00	5.91
ATOM	8417	C	TYR	1166	26.252	42.986	30.715	1.00	30.61
ATOM	8418	O	TYR	1166	27.334	42.575	30.282	1.00	21.47
ATOM	8419	N	ILE	1167	25.391	43.770	30.064	1.00	41.54
ATOM	8420	CA	ILE	1167	25.587	44.492	28.818	1.00	47.50
ATOM	8421	CB	ILE	1167	25.342	46.012	29.052	1.00	47.91
ATOM	8422	CG2	ILE	1167	23.854	46.279	29.215	1.00	51.82
ATOM	8423	CG1	ILE	1167	26.085	46.477	30.312	1.00	36.75
ATOM	8424	CD1	ILE	1167	25.893	47.931	30.676	1.00	40.17
ATOM	8425	C	ILE	1167	26.935	44.307	28.174	1.00	48.41
ATOM	8426	O	ILE	1167	27.032	43.943	27.006	1.00	44.31
ATOM	8427	N	SER	1168	27.945	44.522	29.006	1.00	47.96
ATOM	8428	CA	SER	1168	29.359	44.473	28.710	1.00	51.40
ATOM	8429	CB	SER	1168	29.643	44.223	27.226	1.00	52.54
ATOM	8430	OG	SER	1168	31.027	44.312	26.931	1.00	62.37
ATOM	8431	C	SER	1168	29.761	45.891	29.082	1.00	56.05

ATOM	8432	O	SER	1168	30.093	46.694	28.199	1.00	58.44
ATOM	8433	N	PRO	1169	29.575	46.273	30.368	1.00	57.14
ATOM	8434	CD	PRO	1169	29.125	45.550	31.567	1.00	59.14
ATOM	8435	CA	PRO	1169	29.977	47.639	30.703	1.00	53.69
ATOM	8436	CB	PRO	1169	29.603	47.774	32.189	1.00	51.78
ATOM	8437	CG	PRO	1169	28.619	46.680	32.432	1.00	58.89
ATOM	8438	C	PRO	1169	31.468	47.519	30.441	1.00	51.55
ATOM	8439	O	PRO	1169	31.947	48.031	29.423	1.00	57.20
ATOM	8440	N	PRO	1170	32.217	46.800	31.301	1.00	46.35
ATOM	8441	CD	PRO	1170	32.098	46.386	32.708	1.00	44.28
ATOM	8442	CA	PRO	1170	33.621	46.747	30.908	1.00	47.61
ATOM	8443	CB	PRO	1170	34.345	46.566	32.242	1.00	45.85
ATOM	8444	CG	PRO	1170	33.315	46.989	33.278	1.00	44.39
ATOM	8445	C	PRO	1170	33.710	45.479	30.071	1.00	46.07
ATOM	8446	O	PRO	1170	32.926	44.549	30.285	1.00	45.72
ATOM	8447	N	GLU	1171	34.615	45.455	29.096	1.00	46.48
ATOM	8448	CA	GLU	1171	34.796	44.278	28.252	1.00	51.74
ATOM	8449	CB	GLU	1171	35.894	44.566	27.221	1.00	67.08
ATOM	8450	CG	GLU	1171	36.122	43.469	26.168	1.00	88.11
ATOM	8451	CD	GLU	1171	37.472	43.596	25.440	1.00	95.76
ATOM	8452	OE1	GLU	1171	38.200	42.576	25.362	1.00	97.56
ATOM	8453	OE2	GLU	1171	37.805	44.702	24.948	1.00	97.90
ATOM	8454	C	GLU	1171	35.190	43.076	29.144	1.00	51.43
ATOM	8455	O	GLU	1171	35.088	41.911	28.739	1.00	43.29
ATOM	8456	N	ALA	1172	35.608	43.389	30.371	1.00	52.45
ATOM	8457	CA	ALA	1172	36.027	42.407	31.370	1.00	51.20
ATOM	8458	CB	ALA	1172	36.916	43.091	32.422	1.00	39.50
ATOM	8459	C	ALA	1172	34.847	41.727	32.061	1.00	51.43
ATOM	8460	O	ALA	1172	35.043	40.830	32.888	1.00	51.29
ATOM	8461	N	LEU	1173	33.627	42.112	31.689	1.00	53.05
ATOM	8462	CA	LEU	1173	32.450	41.559	32.338	1.00	50.87
ATOM	8463	CB	LEU	1173	31.567	42.683	32.880	1.00	54.96
ATOM	8464	CG	LEU	1173	30.976	42.310	34.244	1.00	62.86
ATOM	8465	CD1	LEU	1173	32.056	41.642	35.064	1.00	65.32
ATOM	8466	CD2	LEU	1173	30.408	43.520	34.981	1.00	64.63
ATOM	8467	C	LEU	1173	31.598	40.472	31.686	1.00	49.92
ATOM	8468	O	LEU	1173	30.407	40.364	31.978	1.00	47.88
ATOM	8469	N	GLU	1174	32.176	39.676	30.795	1.00	50.16
ATOM	8470	CA	GLU	1174	31.415	38.565	30.230	1.00	52.73
ATOM	8471	CB	GLU	1174	31.879	38.217	28.827	1.00	54.70
ATOM	8472	CG	GLU	1174	31.109	38.976	27.777	1.00	61.50
ATOM	8473	CD	GLU	1174	31.079	40.460	28.057	1.00	64.19
ATOM	8474	OE1	GLU	1174	30.153	40.924	28.760	1.00	66.98
ATOM	8475	OE2	GLU	1174	31.995	41.161	27.584	1.00	72.01
ATOM	8476	C	GLU	1174	31.631	37.400	31.180	1.00	55.55
ATOM	8477	O	GLU	1174	31.429	36.238	30.829	1.00	58.96
ATOM	8478	N	ASN	1175	32.096	37.771	32.380	1.00	53.52
ATOM	8479	CA	ASN	1175	32.399	36.909	33.527	1.00	41.93
ATOM	8480	CB	ASN	1175	33.857	36.456	33.442	1.00	40.31
ATOM	8481	CG	ASN	1175	34.269	36.062	32.018	1.00	41.77
ATOM	8482	OD1	ASN	1175	34.254	34.888	31.654	1.00	44.15
ATOM	8483	ND2	ASN	1175	34.613	37.059	31.203	1.00	43.39
ATOM	8484	C	ASN	1175	32.164	37.874	34.725	1.00	37.23
ATOM	8485	O	ASN	1175	33.060	38.121	35.541	1.00	27.74
ATOM	8486	N	PRO	1176	30.903	38.348	34.870	1.00	36.99
ATOM	8487	CD	PRO	1176	29.878	37.470	34.272	1.00	41.90
ATOM	8488	CA	PRO	1176	30.222	39.260	35.800	1.00	35.66

ATOM	8489	CB	PRO	1176	28.756	38.919	35.604	1.00	39.60
ATOM	8490	CG	PRO	1176	28.808	37.481	35.327	1.00	41.76
ATOM	8491	C	PRO	1176	30.531	39.323	37.269	1.00	37.28
ATOM	8492	O	PRO	1176	31.599	38.900	37.738	1.00	34.35
ATOM	8493	N	CYS	1177	29.568	39.932	37.962	1.00	39.17
ATOM	8494	CA	CYS	1177	29.589	40.156	39.403	1.00	49.86
ATOM	8495	C	CYS	1177	31.004	40.425	39.888	1.00	51.72
ATOM	8496	O	CYS	1177	31.432	39.958	40.946	1.00	52.27
ATOM	8497	CB	CYS	1177	28.926	38.997	40.169	1.00	48.58
ATOM	8498	SG	CYS	1177	29.836	37.430	40.138	1.00	47.78
ATOM	8499	N	TYR	1178	31.734	41.169	39.064	1.00	55.89
ATOM	8500	CA	TYR	1178	33.091	41.527	39.377	1.00	56.91
ATOM	8501	CB	TYR	1178	33.986	41.268	38.174	1.00	60.90
ATOM	8502	CG	TYR	1178	34.373	42.443	37.306	1.00	70.75
ATOM	8503	CD1	TYR	1178	33.521	43.531	37.088	1.00	72.46
ATOM	8504	CE1	TYR	1178	33.891	44.564	36.217	1.00	85.76
ATOM	8505	CD2	TYR	1178	35.597	42.423	36.640	1.00	82.19
ATOM	8506	CE2	TYR	1178	35.974	43.434	35.775	1.00	86.77
ATOM	8507	CZ	TYR	1178	35.128	44.497	35.562	1.00	89.20
ATOM	8508	OH	TYR	1178	35.545	45.460	34.675	1.00	91.89
ATOM	8509	C	TYR	1178	33.118	42.960	39.864	1.00	55.86
ATOM	8510	O	TYR	1178	34.064	43.379	40.513	1.00	55.78
ATOM	8511	N	ASP	1179	32.069	43.715	39.542	1.00	58.12
ATOM	8512	CA	ASP	1179	31.958	45.091	40.016	1.00	62.70
ATOM	8513	CB	ASP	1179	30.968	45.921	39.173	1.00	63.77
ATOM	8514	CG	ASP	1179	29.574	45.306	39.103	1.00	67.28
ATOM	8515	OD1	ASP	1179	29.320	44.553	38.135	1.00	73.03
ATOM	8516	OD2	ASP	1179	28.730	45.590	39.988	1.00	59.16
ATOM	8517	C	ASP	1179	31.510	44.995	41.477	1.00	64.92
ATOM	8518	O	ASP	1179	30.598	45.697	41.926	1.00	62.59
ATOM	8519	N	MET	1180	32.155	44.065	42.182	1.00	66.78
ATOM	8520	CA	MET	1180	31.927	43.771	43.592	1.00	74.44
ATOM	8521	CB	MET	1180	30.522	43.196	43.813	1.00	74.85
ATOM	8522	CG	MET	1180	30.246	41.861	43.129	1.00	72.71
ATOM	8523	SD	MET	1180	28.562	41.277	43.434	1.00	69.56
ATOM	8524	CE	MET	1180	28.653	40.911	45.216	1.00	71.52
ATOM	8525	C	MET	1180	32.987	42.752	44.009	1.00	75.25
ATOM	8526	O	MET	1180	33.492	42.779	45.137	1.00	79.74
ATOM	8527	N	LYS	1181	33.324	41.879	43.061	1.00	76.92
ATOM	8528	CA	LYS	1181	34.323	40.819	43.211	1.00	77.50
ATOM	8529	CB	LYS	1181	35.622	41.342	43.832	1.00	79.56
ATOM	8530	CG	LYS	1181	36.444	42.189	42.881	1.00	80.77
ATOM	8531	CD	LYS	1181	36.454	41.620	41.452	1.00	81.67
ATOM	8532	CE	LYS	1181	36.889	40.152	41.368	1.00	85.27
ATOM	8533	NZ	LYS	1181	35.736	39.197	41.284	1.00	80.43
ATOM	8534	C	LYS	1181	33.937	39.481	43.838	1.00	72.04
ATOM	8535	O	LYS	1181	33.834	39.346	45.059	1.00	72.51
ATOM	8536	N	THR	1182	33.790	38.486	42.967	1.00	63.31
ATOM	8537	CA	THR	1182	33.439	37.119	43.334	1.00	63.32
ATOM	8538	CB	THR	1182	31.951	36.991	43.771	1.00	64.03
ATOM	8539	OG1	THR	1182	31.767	37.618	45.045	1.00	70.53
ATOM	8540	CG2	THR	1182	31.518	35.512	43.857	1.00	61.10
ATOM	8541	C	THR	1182	33.646	36.264	42.094	1.00	62.57
ATOM	8542	O	THR	1182	33.868	35.056	42.187	1.00	67.53
ATOM	8543	N	THR	1183	33.593	36.914	40.935	1.00	59.72
ATOM	8544	CA	THR	1183	33.742	36.251	39.644	1.00	60.67
ATOM	8545	CB	THR	1183	35.214	35.961	39.301	1.00	58.54

ATOM	8546	OG1	THR	1183	35.879	35.389	40.433	1.00	53.98
ATOM	8547	CG2	THR	1183	35.907	37.238	38.880	1.00	61.78
ATOM	8548	C	THR	1183	32.895	34.987	39.457	1.00	56.82
ATOM	8549	O	THR	1183	33.396	33.863	39.516	1.00	59.75
ATOM	8550	N	CYS	1184	31.596	35.200	39.264	1.00	52.33
ATOM	8551	CA	CYS	1184	30.636	34.131	39.038	1.00	43.94
ATOM	8552	C	CYS	1184	30.650	33.834	37.556	1.00	38.56
ATOM	8553	O	CYS	1184	30.958	34.701	36.744	1.00	35.49
ATOM	8554	CB	CYS	1184	29.237	34.590	39.429	1.00	46.67
ATOM	8555	SG	CYS	1184	28.872	36.252	38.793	1.00	44.19
ATOM	8556	N	LEU	1185	30.317	32.600	37.211	1.00	36.23
ATOM	8557	CA	LEU	1185	30.281	32.173	35.824	1.00	34.90
ATOM	8558	CB	LEU	1185	29.716	30.759	35.749	1.00	39.07
ATOM	8559	CG	LEU	1185	30.597	29.566	36.080	1.00	40.36
ATOM	8560	CD1	LEU	1185	29.715	28.439	36.576	1.00	48.71
ATOM	8561	CD2	LEU	1185	31.368	29.145	34.834	1.00	47.38
ATOM	8562	C	LEU	1185	29.370	33.083	35.025	1.00	31.25
ATOM	8563	O	LEU	1185	28.438	33.666	35.572	1.00	35.34
ATOM	8564	N	PRO	1186	29.635	33.232	33.719	1.00	26.88
ATOM	8565	CD	PRO	1186	30.733	32.623	32.955	1.00	21.69
ATOM	8566	CA	PRO	1186	28.802	34.079	32.857	1.00	27.96
ATOM	8567	CB	PRO	1186	29.467	33.929	31.490	1.00	32.41
ATOM	8568	CG	PRO	1186	30.149	32.571	31.575	1.00	25.73
ATOM	8569	C	PRO	1186	27.371	33.532	32.824	1.00	30.90
ATOM	8570	O	PRO	1186	27.132	32.389	33.220	1.00	31.90
ATOM	8571	N	MET	1187	26.420	34.344	32.372	1.00	29.94
ATOM	8572	CA	MET	1187	25.037	33.896	32.306	1.00	23.49
ATOM	8573	CB	MET	1187	24.072	35.066	32.482	1.00	20.92
ATOM	8574	CG	MET	1187	23.786	35.875	31.237	1.00	20.58
ATOM	8575	SD	MET	1187	22.568	37.129	31.641	1.00	27.28
ATOM	8576	CE	MET	1187	21.123	36.376	31.183	1.00	23.89
ATOM	8577	C	MET	1187	24.783	33.128	31.004	1.00	25.86
ATOM	8578	O	MET	1187	25.560	33.257	30.038	1.00	25.37
ATOM	8579	N	PHE	1188	23.700	32.342	30.986	1.00	19.02
ATOM	8580	CA	PHE	1188	23.369	31.502	29.839	1.00	27.48
ATOM	8581	CB	PHE	1188	23.926	30.086	30.067	1.00	21.64
ATOM	8582	CG	PHE	1188	23.667	29.536	31.445	1.00	17.06
ATOM	8583	CD1	PHE	1188	24.383	29.992	32.538	1.00	27.65
ATOM	8584	CD2	PHE	1188	22.713	28.559	31.648	1.00	21.16
ATOM	8585	CE1	PHE	1188	24.150	29.478	33.814	1.00	30.59
ATOM	8586	CE2	PHE	1188	22.473	28.039	32.920	1.00	23.13
ATOM	8587	CZ	PHE	1188	23.191	28.500	34.003	1.00	24.25
ATOM	8588	C	PHE	1188	21.922	31.410	29.308	1.00	36.17
ATOM	8589	O	PHE	1188	21.724	31.138	28.110	1.00	45.06
ATOM	8590	N	GLY	1189	20.921	31.620	30.161	1.00	34.54
ATOM	8591	CA	GLY	1189	19.543	31.528	29.691	1.00	38.81
ATOM	8592	C	GLY	1189	18.870	30.253	30.158	1.00	36.26
ATOM	8593	O	GLY	1189	17.922	30.308	30.952	1.00	36.66
ATOM	8594	N	TYR	1190	19.311	29.129	29.586	1.00	31.35
ATOM	8595	CA	TYR	1190	18.848	27.774	29.925	1.00	28.85
ATOM	8596	CB	TYR	1190	17.435	27.444	29.455	1.00	31.18
ATOM	8597	CG	TYR	1190	17.138	25.974	29.674	1.00	30.64
ATOM	8598	CD1	TYR	1190	17.189	25.424	30.960	1.00	31.20
ATOM	8599	CE1	TYR	1190	17.024	24.060	31.168	1.00	26.34
ATOM	8600	CD2	TYR	1190	16.902	25.114	28.595	1.00	29.01
ATOM	8601	CE2	TYR	1190	16.734	23.741	28.794	1.00	22.16
ATOM	8602	CZ	TYR	1190	16.798	23.229	30.085	1.00	23.48

ATOM	8603	OH	TYR	1190	16.635	21.887	30.304	1.00	27.84
ATOM	8604	C	TYR	1190	19.770	26.732	29.331	1.00	26.95
ATOM	8605	O	TYR	1190	19.763	26.482	28.117	1.00	22.84
ATOM	8606	N	LYS	1191	20.434	26.026	30.232	1.00	31.38
ATOM	8607	CA	LYS	1191	21.396	24.998	29.884	1.00	35.32
ATOM	8608	CB	LYS	1191	22.748	25.418	30.460	1.00	33.80
ATOM	8609	CG	LYS	1191	23.937	24.545	30.160	1.00	38.41
ATOM	8610	CD	LYS	1191	25.166	25.114	30.880	1.00	44.71
ATOM	8611	CE	LYS	1191	24.952	25.145	32.406	1.00	53.51
ATOM	8612	NZ	LYS	1191	26.069	25.756	33.202	1.00	49.28
ATOM	8613	C	LYS	1191	20.966	23.654	30.464	1.00	39.93
ATOM	8614	O	LYS	1191	20.605	23.560	31.645	1.00	33.86
ATOM	8615	N	HIS	1192	20.953	22.633	29.607	1.00	38.71
ATOM	8616	CA	HIS	1192	20.605	21.283	30.025	1.00	44.25
ATOM	8617	CB	HIS	1192	19.969	20.501	28.878	1.00	48.88
ATOM	8618	CG	HIS	1192	19.634	19.086	29.231	1.00	53.95
ATOM	8619	CD2	HIS	1192	19.465	17.987	28.461	1.00	53.61
ATOM	8620	ND1	HIS	1192	19.438	18.669	30.535	1.00	53.50
ATOM	8621	CE1	HIS	1192	19.162	17.382	30.546	1.00	54.77
ATOM	8622	NE2	HIS	1192	19.173	16.939	29.299	1.00	54.51
ATOM	8623	C	HIS	1192	21.887	20.577	30.456	1.00	42.67
ATOM	8624	O	HIS	1192	22.645	20.091	29.615	1.00	46.88
ATOM	8625	N	VAL	1193	22.101	20.489	31.764	1.00	38.64
ATOM	8626	CA	VAL	1193	23.304	19.877	32.301	1.00	40.56
ATOM	8627	CB	VAL	1193	23.737	20.594	33.620	1.00	41.16
ATOM	8628	CG1	VAL	1193	22.536	20.937	34.446	1.00	40.15
ATOM	8629	CG2	VAL	1193	24.703	19.741	34.430	1.00	47.59
ATOM	8630	C	VAL	1193	23.310	18.350	32.466	1.00	38.48
ATOM	8631	O	VAL	1193	24.357	17.718	32.275	1.00	39.00
ATOM	8632	N	LEU	1194	22.154	17.749	32.745	1.00	37.25
ATOM	8633	CA	LEU	1194	22.098	16.295	32.959	1.00	37.48
ATOM	8634	CB	LEU	1194	22.584	16.002	34.389	1.00	34.92
ATOM	8635	CG	LEU	1194	22.698	14.616	35.040	1.00	34.48
ATOM	8636	CD1	LEU	1194	21.355	14.154	35.579	1.00	27.27
ATOM	8637	CD2	LEU	1194	23.315	13.609	34.073	1.00	35.49
ATOM	8638	C	LEU	1194	20.727	15.638	32.699	1.00	36.43
ATOM	8639	O	LEU	1194	19.734	15.973	33.352	1.00	34.41
ATOM	8640	N	THR	1195	20.690	14.678	31.769	1.00	32.17
ATOM	8641	CA	THR	1195	19.451	13.970	31.414	1.00	32.07
ATOM	8642	CB	THR	1195	19.600	13.207	30.086	1.00	23.36
ATOM	8643	OG1	THR	1195	20.511	12.127	30.271	1.00	28.45
ATOM	8644	CG2	THR	1195	20.151	14.112	29.010	1.00	18.65
ATOM	8645	C	THR	1195	18.970	12.987	32.497	1.00	36.72
ATOM	8646	O	THR	1195	19.761	12.539	33.332	1.00	36.62
ATOM	8647	N	LEU	1196	17.678	12.652	32.468	1.00	38.59
ATOM	8648	CA	LEU	1196	17.076	11.738	33.449	1.00	41.33
ATOM	8649	CB	LEU	1196	15.563	11.631	33.234	1.00	37.78
ATOM	8650	CG	LEU	1196	14.677	12.843	33.503	1.00	30.88
ATOM	8651	CD1	LEU	1196	13.654	12.950	32.394	1.00	25.30
ATOM	8652	CD2	LEU	1196	14.006	12.717	34.860	1.00	21.13
ATOM	8653	C	LEU	1196	17.696	10.350	33.395	1.00	43.38
ATOM	8654	O	LEU	1196	17.465	9.597	32.449	1.00	43.60
ATOM	8655	N	THR	1197	18.466	9.999	34.416	1.00	40.74
ATOM	8656	CA	THR	1197	19.104	8.695	34.413	1.00	49.52
ATOM	8657	CB	THR	1197	20.594	8.791	33.959	1.00	52.06
ATOM	8658	OG1	THR	1197	21.042	7.513	33.485	1.00	55.44
ATOM	8659	CG2	THR	1197	21.493	9.246	35.106	1.00	55.11

ATOM	8660	C	THR	1197	18.987	7.994	35.754	1.00	53.75
ATOM	8661	O	THR	1197	18.484	8.567	36.722	1.00	52.04
ATOM	8662	N	ASP	1198	19.452	6.746	35.780	1.00	58.71
ATOM	8663	CA	ASP	1198	19.421	5.880	36.958	1.00	58.83
ATOM	8664	CB	ASP	1198	19.688	4.431	36.541	1.00	56.51
ATOM	8665	CG	ASP	1198	18.846	3.999	35.354	1.00	58.89
ATOM	8666	OD1	ASP	1198	17.954	3.148	35.551	1.00	66.06
ATOM	8667	OD2	ASP	1198	19.077	4.497	34.226	1.00	55.96
ATOM	8668	C	ASP	1198	20.402	6.275	38.071	1.00	61.25
ATOM	8669	O	ASP	1198	20.001	6.403	39.229	1.00	60.15
ATOM	8670	N	GLN	1199	21.675	6.470	37.719	1.00	61.41
ATOM	8671	CA	GLN	1199	22.713	6.823	38.698	1.00	64.81
ATOM	8672	CB	GLN	1199	24.094	6.915	38.040	1.00	62.04
ATOM	8673	CG	GLN	1199	24.533	5.673	37.305	1.00	65.90
ATOM	8674	CD	GLN	1199	23.799	5.495	36.001	1.00	69.24
ATOM	8675	OE1	GLN	1199	23.009	4.564	35.842	1.00	72.29
ATOM	8676	NE2	GLN	1199	24.039	6.399	35.057	1.00	75.79
ATOM	8677	C	GLN	1199	22.445	8.122	39.447	1.00	64.55
ATOM	8678	O	GLN	1199	22.482	9.205	38.859	1.00	64.44
ATOM	8679	N	VAL	1200	22.203	8.008	40.751	1.00	61.02
ATOM	8680	CA	VAL	1200	21.936	9.172	41.584	1.00	59.81
ATOM	8681	CB	VAL	1200	21.067	8.826	42.794	1.00	63.51
ATOM	8682	CG1	VAL	1200	19.753	8.223	42.335	1.00	70.20
ATOM	8683	CG2	VAL	1200	21.807	7.885	43.723	1.00	71.63
ATOM	8684	C	VAL	1200	23.228	9.787	42.074	1.00	62.03
ATOM	8685	O	VAL	1200	23.243	10.922	42.540	1.00	64.90
ATOM	8686	N	THR	1201	24.303	9.011	41.999	1.00	63.31
ATOM	8687	CA	THR	1201	25.623	9.473	42.408	1.00	66.87
ATOM	8688	CB	THR	1201	26.566	8.286	42.670	1.00	70.43
ATOM	8689	OG1	THR	1201	26.554	7.409	41.534	1.00	76.06
ATOM	8690	CG2	THR	1201	26.121	7.519	43.919	1.00	70.39
ATOM	8691	C	THR	1201	26.181	10.356	41.290	1.00	67.25
ATOM	8692	O	THR	1201	26.883	11.337	41.545	1.00	70.66
ATOM	8693	N	ARG	1202	25.857	9.988	40.049	1.00	67.29
ATOM	8694	CA	ARG	1202	26.260	10.741	38.861	1.00	62.79
ATOM	8695	CB	ARG	1202	25.752	10.019	37.608	1.00	65.05
ATOM	8696	CG	ARG	1202	26.011	10.744	36.309	1.00	70.68
ATOM	8697	CD	ARG	1202	27.482	10.715	35.962	1.00	81.77
ATOM	8698	NE	ARG	1202	27.808	11.657	34.894	1.00	93.49
ATOM	8699	CZ	ARG	1202	27.626	11.426	33.597	1.00	97.58
ATOM	8700	NH1	ARG	1202	27.119	10.268	33.182	1.00	99.80
ATOM	8701	NH2	ARG	1202	27.943	12.365	32.711	1.00	99.14
ATOM	8702	C	ARG	1202	25.572	12.103	38.989	1.00	58.83
ATOM	8703	O	ARG	1202	26.134	13.146	38.649	1.00	57.41
ATOM	8704	N	PHE	1203	24.347	12.052	39.509	1.00	53.93
ATOM	8705	CA	PHE	1203	23.499	13.208	39.750	1.00	51.42
ATOM	8706	CB	PHE	1203	22.120	12.713	40.186	1.00	47.55
ATOM	8707	CG	PHE	1203	21.087	13.787	40.296	1.00	42.69
ATOM	8708	CD1	PHE	1203	20.340	14.164	39.180	1.00	41.39
ATOM	8709	CD2	PHE	1203	20.813	14.381	41.522	1.00	35.84
ATOM	8710	CE1	PHE	1203	19.329	15.119	39.283	1.00	36.56
ATOM	8711	CE2	PHE	1203	19.804	15.338	41.639	1.00	33.95
ATOM	8712	CZ	PHE	1203	19.057	15.707	40.515	1.00	30.41
ATOM	8713	C	PHE	1203	24.130	14.036	40.864	1.00	55.69
ATOM	8714	O	PHE	1203	24.568	15.159	40.634	1.00	62.36
ATOM	8715	N	ASN	1204	24.211	13.454	42.057	1.00	55.58
ATOM	8716	CA	ASN	1204	24.790	14.112	43.227	1.00	57.65

ATOM	8717	CB	ASN	1204	25.144	13.075	44.289	1.00	58.79
ATOM	8718	CG	ASN	1204	23.949	12.638	45.084	1.00	63.47
ATOM	8719	OD1	ASN	1204	23.530	11.483	45.014	1.00	69.62
ATOM	8720	ND2	ASN	1204	23.386	13.560	45.855	1.00	67.08
ATOM	8721	C	ASN	1204	26.022	14.971	42.974	1.00	57.40
ATOM	8722	O	ASN	1204	26.142	16.064	43.534	1.00	58.55
ATOM	8723	N	GLU	1205	26.929	14.476	42.137	1.00	55.52
ATOM	8724	CA	GLU	1205	28.161	15.191	41.836	1.00	59.88
ATOM	8725	CB	GLU	1205	29.243	14.214	41.383	1.00	64.35
ATOM	8726	CG	GLU	1205	28.878	13.391	40.168	1.00	66.15
ATOM	8727	CD	GLU	1205	30.102	12.863	39.457	1.00	74.25
ATOM	8728	OE1	GLU	1205	30.684	11.866	39.945	1.00	73.57
ATOM	8729	OE2	GLU	1205	30.490	13.455	38.421	1.00	73.86
ATOM	8730	C	GLU	1205	28.028	16.320	40.821	1.00	60.27
ATOM	8731	O	GLU	1205	28.380	17.467	41.114	1.00	60.94
ATOM	8732	N	GLU	1206	27.551	15.983	39.621	1.00	61.66
ATOM	8733	CA	GLU	1206	27.367	16.954	38.540	1.00	58.79
ATOM	8734	CB	GLU	1206	26.579	16.323	37.395	1.00	59.96
ATOM	8735	CG	GLU	1206	27.318	16.279	36.082	1.00	67.90
ATOM	8736	CD	GLU	1206	27.576	14.862	35.628	1.00	72.42
ATOM	8737	OE1	GLU	1206	28.763	14.494	35.452	1.00	80.71
ATOM	8738	OE2	GLU	1206	26.587	14.115	35.457	1.00	73.04
ATOM	8739	C	GLU	1206	26.599	18.168	39.035	1.00	56.29
ATOM	8740	O	GLU	1206	26.900	19.307	38.670	1.00	59.09
ATOM	8741	N	VAL	1207	25.617	17.893	39.887	1.00	52.07
ATOM	8742	CA	VAL	1207	24.743	18.899	40.466	1.00	46.54
ATOM	8743	CB	VAL	1207	23.481	18.222	41.042	1.00	41.32
ATOM	8744	CG1	VAL	1207	23.697	17.779	42.478	1.00	42.52
ATOM	8745	CG2	VAL	1207	22.283	19.112	40.872	1.00	43.98
ATOM	8746	C	VAL	1207	25.434	19.763	41.520	1.00	48.88
ATOM	8747	O	VAL	1207	24.920	20.812	41.909	1.00	52.72
ATOM	8748	N	LYS	1208	26.594	19.308	41.988	1.00	50.77
ATOM	8749	CA	LYS	1208	27.364	20.051	42.978	1.00	49.22
ATOM	8750	CB	LYS	1208	28.068	19.096	43.942	1.00	54.34
ATOM	8751	CG	LYS	1208	28.761	19.791	45.111	1.00	66.23
ATOM	8752	CD	LYS	1208	27.781	20.646	45.940	1.00	69.23
ATOM	8753	CE	LYS	1208	28.479	21.391	47.103	1.00	70.46
ATOM	8754	NZ	LYS	1208	29.037	20.528	48.201	1.00	62.92
ATOM	8755	C	LYS	1208	28.384	20.908	42.238	1.00	45.56
ATOM	8756	O	LYS	1208	28.788	21.965	42.712	1.00	42.07
ATOM	8757	N	LYS	1209	28.768	20.452	41.051	1.00	45.06
ATOM	8758	CA	LYS	1209	29.721	21.164	40.207	1.00	51.21
ATOM	8759	CB	LYS	1209	30.098	20.290	38.999	1.00	56.81
ATOM	8760	CG	LYS	1209	30.664	18.912	39.335	1.00	63.71
ATOM	8761	CD	LYS	1209	30.962	18.114	38.060	1.00	69.62
ATOM	8762	CE	LYS	1209	31.433	16.689	38.376	1.00	73.31
ATOM	8763	NZ	LYS	1209	31.631	15.837	37.158	1.00	68.69
ATOM	8764	C	LYS	1209	29.128	22.493	39.698	1.00	52.53
ATOM	8765	O	LYS	1209	29.813	23.291	39.044	1.00	54.92
ATOM	8766	N	GLN	1210	27.851	22.720	39.992	1.00	51.57
ATOM	8767	CA	GLN	1210	27.164	23.926	39.540	1.00	45.38
ATOM	8768	CB	GLN	1210	25.685	23.609	39.248	1.00	34.11
ATOM	8769	CG	GLN	1210	25.460	22.445	38.263	1.00	29.48
ATOM	8770	CD	GLN	1210	25.935	22.735	36.823	1.00	38.27
ATOM	8771	OE1	GLN	1210	25.532	23.735	36.209	1.00	36.24
ATOM	8772	NE2	GLN	1210	26.777	21.842	36.273	1.00	26.90
ATOM	8773	C	GLN	1210	27.285	25.093	40.521	1.00	43.12

ATOM	8774	O	GLN	1210	27.261	24.896	41.745	1.00	37.83
ATOM	8775	N	SER	1211	27.451	26.299	39.971	1.00	43.81
ATOM	8776	CA	SER	1211	27.549	27.521	40.774	1.00	44.13
ATOM	8777	CB	SER	1211	28.991	28.037	40.827	1.00	47.85
ATOM	8778	OG	SER	1211	29.309	28.798	39.674	1.00	57.71
ATOM	8779	C	SER	1211	26.623	28.640	40.264	1.00	41.73
ATOM	8780	O	SER	1211	25.955	28.502	39.236	1.00	41.34
ATOM	8781	N	VAL	1212	26.640	29.763	40.975	1.00	34.34
ATOM	8782	CA	VAL	1212	25.816	30.931	40.662	1.00	26.98
ATOM	8783	CB	VAL	1212	25.582	31.763	41.952	1.00	25.09
ATOM	8784	CG1	VAL	1212	24.097	31.970	42.197	1.00	22.03
ATOM	8785	CG2	VAL	1212	26.220	31.049	43.162	1.00	30.13
ATOM	8786	C	VAL	1212	26.396	31.847	39.565	1.00	21.30
ATOM	8787	O	VAL	1212	27.615	31.982	39.434	1.00	23.75
ATOM	8788	N	SER	1213	25.513	32.412	38.740	1.00	14.48
ATOM	8789	CA	SER	1213	25.899	33.341	37.671	1.00	12.05
ATOM	8790	CB	SER	1213	25.267	32.935	36.333	1.00	17.74
ATOM	8791	OG	SER	1213	25.721	33.753	35.256	1.00	8.14
ATOM	8792	C	SER	1213	25.366	34.702	38.113	1.00	15.59
ATOM	8793	O	SER	1213	25.147	34.907	39.296	1.00	16.57
ATOM	8794	N	ARG	1214	25.142	35.633	37.193	1.00	10.97
ATOM	8795	CA	ARG	1214	24.631	36.928	37.615	1.00	14.11
ATOM	8796	CB	ARG	1214	25.748	37.770	38.232	1.00	18.34
ATOM	8797	CG	ARG	1214	25.273	38.803	39.258	1.00	22.26
ATOM	8798	CD	ARG	1214	25.785	40.187	38.904	1.00	28.75
ATOM	8799	NE	ARG	1214	25.785	41.095	40.050	1.00	32.85
ATOM	8800	CZ	ARG	1214	26.423	42.262	40.074	1.00	29.20
ATOM	8801	NH1	ARG	1214	27.107	42.670	39.010	1.00	24.58
ATOM	8802	NH2	ARG	1214	26.420	42.997	41.175	1.00	23.23
ATOM	8803	C	ARG	1214	23.910	37.727	36.537	1.00	18.80
ATOM	8804	O	ARG	1214	24.398	37.892	35.412	1.00	18.67
ATOM	8805	N	ASN	1215	22.758	38.258	36.927	1.00	11.01
ATOM	8806	CA	ASN	1215	21.920	39.039	36.049	1.00	13.50
ATOM	8807	CB	ASN	1215	20.549	38.386	35.940	1.00	16.72
ATOM	8808	CG	ASN	1215	20.158	38.120	34.514	1.00	27.49
ATOM	8809	OD1	ASN	1215	18.988	38.137	34.171	1.00	27.53
ATOM	8810	ND2	ASN	1215	21.151	37.894	33.664	1.00	27.23
ATOM	8811	C	ASN	1215	21.762	40.476	36.513	1.00	19.49
ATOM	8812	O	ASN	1215	22.222	40.870	37.588	1.00	29.42
ATOM	8813	N	ARG	1216	21.071	41.255	35.700	1.00	14.39
ATOM	8814	CA	ARG	1216	20.845	42.634	36.019	1.00	15.93
ATOM	8815	CB	ARG	1216	20.960	43.458	34.736	1.00	26.81
ATOM	8816	CG	ARG	1216	21.421	44.877	34.964	1.00	29.93
ATOM	8817	CD	ARG	1216	22.346	45.367	33.872	1.00	23.92
ATOM	8818	NE	ARG	1216	23.259	46.329	34.475	1.00	28.40
ATOM	8819	CZ	ARG	1216	24.468	46.617	34.014	1.00	32.63
ATOM	8820	NH1	ARG	1216	24.917	46.021	32.912	1.00	27.88
ATOM	8821	NH2	ARG	1216	25.261	47.433	34.706	1.00	31.29
ATOM	8822	C	ARG	1216	19.511	42.858	36.754	1.00	19.92
ATOM	8823	O	ARG	1216	19.504	43.467	37.822	1.00	25.90
ATOM	8824	N	ASP	1217	18.405	42.308	36.237	1.00	21.18
ATOM	8825	CA	ASP	1217	17.083	42.498	36.866	1.00	18.29
ATOM	8826	CB	ASP	1217	16.080	43.142	35.893	1.00	19.93
ATOM	8827	CG	ASP	1217	15.757	42.276	34.680	1.00	27.39
ATOM	8828	OD1	ASP	1217	14.569	42.273	34.293	1.00	29.69
ATOM	8829	OD2	ASP	1217	16.667	41.649	34.093	1.00	25.89
ATOM	8830	C	ASP	1217	16.442	41.306	37.575	1.00	25.54

ATOM	8831	O	ASP	1217	16.591	40.170	37.142	1.00	34.39
ATOM	8832	N	ALA	1218	15.679	41.597	38.635	1.00	24.60
ATOM	8833	CA	ALA	1218	15.003	40.584	39.463	1.00	17.97
ATOM	8834	CB	ALA	1218	14.002	41.247	40.413	1.00	13.99
ATOM	8835	C	ALA	1218	14.368	39.379	38.748	1.00	16.14
ATOM	8836	O	ALA	1218	14.707	38.239	39.071	1.00	21.29
ATOM	8837	N	PRO	1219	13.394	39.602	37.833	1.00	14.48
ATOM	8838	CD	PRO	1219	12.695	40.870	37.577	1.00	14.03
ATOM	8839	CA	PRO	1219	12.734	38.519	37.088	1.00	15.78
ATOM	8840	CB	PRO	1219	11.756	39.279	36.202	1.00	12.26
ATOM	8841	CG	PRO	1219	11.375	40.405	37.047	1.00	6.94
ATOM	8842	C	PRO	1219	13.746	37.767	36.238	1.00	18.73
ATOM	8843	O	PRO	1219	14.672	38.376	35.700	1.00	10.37
ATOM	8844	N	GLU	1220	13.545	36.464	36.058	1.00	21.89
ATOM	8845	CA	GLU	1220	14.514	35.700	35.280	1.00	29.15
ATOM	8846	CB	GLU	1220	15.474	34.977	36.224	1.00	26.66
ATOM	8847	CG	GLU	1220	16.868	35.616	36.267	1.00	32.58
ATOM	8848	CD	GLU	1220	17.081	36.528	37.435	1.00	40.15
ATOM	8849	OE1	GLU	1220	17.885	37.472	37.306	1.00	46.43
ATOM	8850	OE2	GLU	1220	16.450	36.284	38.479	1.00	47.64
ATOM	8851	C	GLU	1220	14.066	34.756	34.158	1.00	33.28
ATOM	8852	O	GLU	1220	14.876	33.989	33.616	1.00	33.38
ATOM	8853	N	GLY	1221	12.823	34.877	33.721	1.00	34.27
ATOM	8854	CA	GLY	1221	12.377	33.981	32.669	1.00	37.86
ATOM	8855	C	GLY	1221	12.307	32.582	33.249	1.00	39.73
ATOM	8856	O	GLY	1221	11.621	32.369	34.261	1.00	45.70
ATOM	8857	N	GLY	1222	13.065	31.642	32.693	1.00	27.41
ATOM	8858	CA	GLY	1222	12.969	30.298	33.227	1.00	22.92
ATOM	8859	C	GLY	1222	11.680	29.652	32.734	1.00	16.19
ATOM	8860	O	GLY	1222	11.572	28.432	32.682	1.00	12.98
ATOM	8861	N	PHE	1223	10.663	30.467	32.455	1.00	9.68
ATOM	8862	CA	PHE	1223	9.428	29.958	31.890	1.00	2.00
ATOM	8863	CB	PHE	1223	8.418	31.080	31.669	1.00	2.45
ATOM	8864	CG	PHE	1223	7.506	31.331	32.845	1.00	5.18
ATOM	8865	CD1	PHE	1223	7.740	30.729	34.076	1.00	3.23
ATOM	8866	CD2	PHE	1223	6.410	32.189	32.716	1.00	2.00
ATOM	8867	CE1	PHE	1223	6.900	30.978	35.162	1.00	7.60
ATOM	8868	CE2	PHE	1223	5.566	32.442	33.793	1.00	3.17
ATOM	8869	CZ	PHE	1223	5.808	31.840	35.019	1.00	5.40
ATOM	8870	C	PHE	1223	9.939	29.482	30.549	1.00	2.72
ATOM	8871	O	PHE	1223	9.449	28.519	29.980	1.00	10.91
ATOM	8872	N	ASP	1224	10.960	30.183	30.077	1.00	7.94
ATOM	8873	CA	ASP	1224	11.651	29.881	28.836	1.00	14.39
ATOM	8874	CB	ASP	1224	12.821	30.875	28.687	1.00	26.02
ATOM	8875	CG	ASP	1224	12.934	31.507	27.284	1.00	29.65
ATOM	8876	OD1	ASP	1224	14.057	31.964	26.962	1.00	25.74
ATOM	8877	OD2	ASP	1224	11.942	31.584	26.519	1.00	27.92
ATOM	8878	C	ASP	1224	12.185	28.443	29.011	1.00	16.25
ATOM	8879	O	ASP	1224	12.123	27.637	28.090	1.00	14.46
ATOM	8880	N	ALA	1225	12.666	28.127	30.216	1.00	16.47
ATOM	8881	CA	ALA	1225	13.197	26.798	30.535	1.00	15.68
ATOM	8882	CB	ALA	1225	14.068	26.861	31.794	1.00	3.66
ATOM	8883	C	ALA	1225	12.074	25.763	30.710	1.00	13.13
ATOM	8884	O	ALA	1225	12.140	24.657	30.156	1.00	9.10
ATOM	8885	N	ILE	1226	11.049	26.131	31.480	1.00	7.66
ATOM	8886	CA	ILE	1226	9.904	25.265	31.710	1.00	3.22
ATOM	8887	CB	ILE	1226	8.760	26.026	32.350	1.00	2.00

ATOM	8888	CG2	ILE	1226	7.522	25.192	32.357	1.00	7.64
ATOM	8889	CG1	ILE	1226	9.106	26.417	33.781	1.00	13.47
ATOM	8890	CD1	ILE	1226	7.997	27.241	34.466	1.00	9.39
ATOM	8891	C	ILE	1226	9.411	24.776	30.360	1.00	8.96
ATOM	8892	O	ILE	1226	8.995	23.631	30.205	1.00	17.41
ATOM	8893	N	MET	1227	9.506	25.649	29.371	1.00	6.24
ATOM	8894	CA	MET	1227	9.064	25.331	28.028	1.00	12.87
ATOM	8895	CB	MET	1227	8.978	26.609	27.190	1.00	17.14
ATOM	8896	CG	MET	1227	8.628	26.392	25.723	1.00	12.32
ATOM	8897	SD	MET	1227	7.132	25.415	25.532	1.00	17.31
ATOM	8898	CE	MET	1227	5.859	26.449	26.342	1.00	2.00
ATOM	8899	C	MET	1227	9.919	24.298	27.308	1.00	17.36
ATOM	8900	O	MET	1227	9.390	23.320	26.793	1.00	22.71
ATOM	8901	N	GLN	1228	11.229	24.525	27.243	1.00	19.23
ATOM	8902	CA	GLN	1228	12.125	23.609	26.543	1.00	9.32
ATOM	8903	CB	GLN	1228	13.498	24.244	26.347	1.00	7.03
ATOM	8904	CG	GLN	1228	13.525	25.397	25.359	1.00	3.35
ATOM	8905	CD	GLN	1228	12.917	25.044	24.008	1.00	12.22
ATOM	8906	OE1	GLN	1228	13.624	24.825	23.018	1.00	4.38
ATOM	8907	NE2	GLN	1228	11.592	25.028	23.953	1.00	23.12
ATOM	8908	C	GLN	1228	12.248	22.259	27.232	1.00	8.60
ATOM	8909	O	GLN	1228	12.395	21.224	26.565	1.00	2.39
ATOM	8910	N	ALA	1229	12.185	22.270	28.563	1.00	3.68
ATOM	8911	CA	ALA	1229	12.265	21.032	29.322	1.00	6.74
ATOM	8912	CB	ALA	1229	12.199	21.313	30.826	1.00	2.00
ATOM	8913	C	ALA	1229	11.076	20.179	28.875	1.00	14.31
ATOM	8914	O	ALA	1229	11.195	18.971	28.699	1.00	23.84
ATOM	8915	N	THR	1230	9.954	20.838	28.605	1.00	14.61
ATOM	8916	CA	THR	1230	8.743	20.155	28.175	1.00	7.55
ATOM	8917	CB	THR	1230	7.501	21.029	28.433	1.00	7.81
ATOM	8918	OG1	THR	1230	7.400	21.322	29.838	1.00	10.07
ATOM	8919	CG2	THR	1230	6.244	20.323	27.961	1.00	2.00
ATOM	8920	C	THR	1230	8.729	19.681	26.724	1.00	5.52
ATOM	8921	O	THR	1230	8.427	18.531	26.466	1.00	11.28
ATOM	8922	N	VAL	1231	9.079	20.552	25.783	1.00	11.02
ATOM	8923	CA	VAL	1231	9.045	20.194	24.366	1.00	17.73
ATOM	8924	CB	VAL	1231	8.713	21.408	23.465	1.00	22.02
ATOM	8925	CG1	VAL	1231	7.329	21.942	23.798	1.00	32.49
ATOM	8926	CG2	VAL	1231	9.751	22.495	23.625	1.00	18.95
ATOM	8927	C	VAL	1231	10.247	19.486	23.781	1.00	18.54
ATOM	8928	O	VAL	1231	10.219	19.095	22.611	1.00	17.86
ATOM	8929	N	CYS	1232	11.313	19.356	24.559	1.00	22.72
ATOM	8930	CA	CYS	1232	12.504	18.667	24.070	1.00	34.08
ATOM	8931	C	CYS	1232	12.555	17.286	24.713	1.00	38.32
ATOM	8932	O	CYS	1232	13.450	16.966	25.496	1.00	40.90
ATOM	8933	CB	CYS	1232	13.773	19.470	24.381	1.00	33.18
ATOM	8934	SG	CYS	1232	13.881	21.087	23.542	1.00	17.41
ATOM	8935	N	ASP	1233	11.585	16.462	24.342	1.00	40.22
ATOM	8936	CA	ASP	1233	11.448	15.122	24.883	1.00	41.63
ATOM	8937	CB	ASP	1233	10.196	14.466	24.312	1.00	45.04
ATOM	8938	CG	ASP	1233	8.926	15.179	24.730	1.00	41.58
ATOM	8939	OD1	ASP	1233	8.139	15.528	23.829	1.00	36.66
ATOM	8940	OD2	ASP	1233	8.722	15.388	25.949	1.00	34.59
ATOM	8941	C	ASP	1233	12.635	14.189	24.739	1.00	40.82
ATOM	8942	O	ASP	1233	12.868	13.359	25.618	1.00	39.25
ATOM	8943	N	GLU	1234	13.368	14.301	23.631	1.00	42.17
ATOM	8944	CA	GLU	1234	14.533	13.441	23.407	1.00	44.09

ATOM	8945	CB	GLU	1234	14.964	13.460	21.949	1.00	55.12
ATOM	8946	CG	GLU	1234	14.100	12.613	21.046	1.00	76.35
ATOM	8947	CD	GLU	1234	14.781	12.301	19.727	1.00	89.67
ATOM	8948	OE1	GLU	1234	15.000	13.239	18.927	1.00	96.90
ATOM	8949	OE2	GLU	1234	15.105	11.112	19.500	1.00	95.79
ATOM	8950	C	GLU	1234	15.723	13.798	24.272	1.00	39.83
ATOM	8951	O	GLU	1234	16.305	12.942	24.936	1.00	38.61
ATOM	8952	N	LYS	1235	16.097	15.069	24.241	1.00	34.79
ATOM	8953	CA	LYS	1235	17.219	15.540	25.026	1.00	28.49
ATOM	8954	CB	LYS	1235	17.444	17.045	24.763	1.00	33.30
ATOM	8955	CG	LYS	1235	18.904	17.573	24.913	1.00	28.38
ATOM	8956	CD	LYS	1235	19.887	17.026	23.857	1.00	27.52
ATOM	8957	CE	LYS	1235	19.493	17.388	22.421	1.00	33.77
ATOM	8958	NZ	LYS	1235	20.437	16.844	21.386	1.00	28.66
ATOM	8959	C	LYS	1235	16.975	15.231	26.517	1.00	21.57
ATOM	8960	O	LYS	1235	17.804	14.580	27.140	1.00	26.15
ATOM	8961	N	ILE	1236	15.810	15.590	27.056	1.00	17.64
ATOM	8962	CA	ILE	1236	15.513	15.349	28.483	1.00	27.09
ATOM	8963	CB	ILE	1236	14.293	16.196	28.961	1.00	22.26
ATOM	8964	CG2	ILE	1236	13.801	15.757	30.328	1.00	13.10
ATOM	8965	CG1	ILE	1236	14.681	17.670	29.054	1.00	28.22
ATOM	8966	CD1	ILE	1236	14.834	18.363	27.708	1.00	30.25
ATOM	8967	C	ILE	1236	15.328	13.872	28.897	1.00	37.71
ATOM	8968	O	ILE	1236	15.629	13.478	30.038	1.00	30.24
ATOM	8969	N	GLY	1237	14.846	13.059	27.959	1.00	46.65
ATOM	8970	CA	GLY	1237	14.624	11.648	28.233	1.00	52.45
ATOM	8971	C	GLY	1237	13.382	11.376	29.065	1.00	57.07
ATOM	8972	O	GLY	1237	13.468	10.763	30.129	1.00	57.76
ATOM	8973	N	TRP	1238	12.233	11.853	28.594	1.00	56.75
ATOM	8974	CA	TRP	1238	10.969	11.646	29.294	1.00	55.49
ATOM	8975	CB	TRP	1238	9.975	12.756	28.951	1.00	55.72
ATOM	8976	CG	TRP	1238	10.218	14.130	29.552	1.00	47.39
ATOM	8977	CD2	TRP	1238	10.056	14.512	30.928	1.00	40.24
ATOM	8978	CE2	TRP	1238	10.198	15.919	30.990	1.00	36.06
ATOM	8979	CE3	TRP	1238	9.793	13.806	32.108	1.00	39.13
ATOM	8980	CD1	TRP	1238	10.469	15.289	28.865	1.00	44.16
ATOM	8981	NE1	TRP	1238	10.448	16.364	29.722	1.00	35.90
ATOM	8982	CZ2	TRP	1238	10.080	16.630	32.189	1.00	36.51
ATOM	8983	CZ3	TRP	1238	9.679	14.524	33.308	1.00	38.37
ATOM	8984	CH2	TRP	1238	9.822	15.919	33.332	1.00	32.18
ATOM	8985	C	TRP	1238	10.385	10.300	28.856	1.00	57.31
ATOM	8986	O	TRP	1238	10.105	10.088	27.669	1.00	55.33
ATOM	8987	N	ARG	1239	10.199	9.397	29.816	1.00	58.99
ATOM	8988	CA	ARG	1239	9.657	8.069	29.531	1.00	58.36
ATOM	8989	CB	ARG	1239	10.073	7.070	30.615	1.00	54.75
ATOM	8990	CG	ARG	1239	11.447	6.457	30.410	1.00	48.63
ATOM	8991	CD	ARG	1239	11.811	5.559	31.571	1.00	44.46
ATOM	8992	NE	ARG	1239	11.934	6.314	32.814	1.00	41.43
ATOM	8993	CZ	ARG	1239	11.697	5.813	34.023	1.00	42.33
ATOM	8994	NH1	ARG	1239	11.321	4.549	34.158	1.00	45.21
ATOM	8995	NH2	ARG	1239	11.832	6.578	35.096	1.00	43.25
ATOM	8996	C	ARG	1239	8.146	8.049	29.390	1.00	55.72
ATOM	8997	O	ARG	1239	7.425	8.292	30.358	1.00	53.80
ATOM	8998	N	ASN	1240	7.672	7.745	28.186	1.00	55.78
ATOM	8999	CA	ASN	1240	6.236	7.678	27.940	1.00	59.13
ATOM	9000	CB	ASN	1240	5.908	7.829	26.443	1.00	64.79
ATOM	9001	CG	ASN	1240	6.570	6.768	25.573	1.00	70.91

ATOM	9002	OD1	ASN	1240	6.109	6.496	24.462	1.00	72.95
ATOM	9003	ND2	ASN	1240	7.653	6.168	26.069	1.00	73.13
ATOM	9004	C	ASN	1240	5.683	6.378	28.515	1.00	52.33
ATOM	9005	O	ASN	1240	5.451	5.395	27.802	1.00	54.08
ATOM	9006	N	ASP	1241	5.526	6.389	29.835	1.00	44.24
ATOM	9007	CA	ASP	1241	5.033	5.257	30.605	1.00	41.26
ATOM	9008	CB	ASP	1241	5.752	3.968	30.190	1.00	50.41
ATOM	9009	CG	ASP	1241	7.277	4.082	30.299	1.00	57.98
ATOM	9010	OD1	ASP	1241	7.932	4.412	29.279	1.00	60.33
ATOM	9011	OD2	ASP	1241	7.819	3.846	31.406	1.00	60.90
ATOM	9012	C	ASP	1241	5.323	5.542	32.074	1.00	38.13
ATOM	9013	O	ASP	1241	4.976	4.754	32.946	1.00	40.49
ATOM	9014	N	ALA	1242	5.994	6.656	32.337	1.00	31.75
ATOM	9015	CA	ALA	1242	6.344	7.038	33.696	1.00	25.41
ATOM	9016	CB	ALA	1242	7.838	7.119	33.822	1.00	20.98
ATOM	9017	C	ALA	1242	5.706	8.368	34.089	1.00	27.37
ATOM	9018	O	ALA	1242	5.366	9.176	33.231	1.00	33.72
ATOM	9019	N	SER	1243	5.519	8.582	35.387	1.00	23.51
ATOM	9020	CA	SER	1243	4.929	9.816	35.880	1.00	23.31
ATOM	9021	CB	SER	1243	4.472	9.635	37.316	1.00	22.37
ATOM	9022	OG	SER	1243	3.324	10.421	37.553	1.00	34.89
ATOM	9023	C	SER	1243	5.965	10.940	35.777	1.00	33.26
ATOM	9024	O	SER	1243	6.997	10.908	36.456	1.00	35.38
ATOM	9025	N	HIS	1244	5.666	11.929	34.932	1.00	30.10
ATOM	9026	CA	HIS	1244	6.545	13.072	34.641	1.00	19.04
ATOM	9027	CB	HIS	1244	6.284	13.545	33.222	1.00	13.99
ATOM	9028	CG	HIS	1244	6.215	12.437	32.222	1.00	22.94
ATOM	9029	CD2	HIS	1244	7.180	11.645	31.700	1.00	26.84
ATOM	9030	ND1	HIS	1244	5.035	12.044	31.635	1.00	26.52
ATOM	9031	CE1	HIS	1244	5.275	11.056	30.789	1.00	30.34
ATOM	9032	NE2	HIS	1244	6.570	10.797	30.810	1.00	28.16
ATOM	9033	C	HIS	1244	6.455	14.289	35.553	1.00	18.21
ATOM	9034	O	HIS	1244	5.449	14.991	35.558	1.00	20.28
ATOM	9035	N	LEU	1245	7.546	14.595	36.247	1.00	18.01
ATOM	9036	CA	LEU	1245	7.584	15.750	37.137	1.00	17.81
ATOM	9037	CB	LEU	1245	7.913	15.310	38.549	1.00	11.21
ATOM	9038	CG	LEU	1245	7.015	14.205	39.075	1.00	12.24
ATOM	9039	CD1	LEU	1245	7.244	14.050	40.570	1.00	11.92
ATOM	9040	CD2	LEU	1245	5.564	14.565	38.799	1.00	11.06
ATOM	9041	C	LEU	1245	8.605	16.792	36.695	1.00	25.21
ATOM	9042	O	LEU	1245	9.654	16.456	36.142	1.00	31.07
ATOM	9043	N	LEU	1246	8.288	18.058	36.944	1.00	25.89
ATOM	9044	CA	LEU	1246	9.165	19.173	36.606	1.00	16.53
ATOM	9045	CB	LEU	1246	8.666	19.887	35.346	1.00	14.81
ATOM	9046	CG	LEU	1246	9.653	20.816	34.629	1.00	19.32
ATOM	9047	CD1	LEU	1246	10.926	20.045	34.298	1.00	11.01
ATOM	9048	CD2	LEU	1246	9.025	21.396	33.344	1.00	15.26
ATOM	9049	C	LEU	1246	9.184	20.125	37.800	1.00	17.20
ATOM	9050	O	LEU	1246	8.208	20.823	38.086	1.00	11.98
ATOM	9051	N	VAL	1247	10.266	20.070	38.559	1.00	18.25
ATOM	9052	CA	VAL	1247	10.399	20.934	39.718	1.00	21.33
ATOM	9053	CB	VAL	1247	11.206	20.262	40.822	1.00	26.92
ATOM	9054	CG1	VAL	1247	11.137	21.105	42.100	1.00	24.82
ATOM	9055	CG2	VAL	1247	10.692	18.848	41.052	1.00	23.77
ATOM	9056	C	VAL	1247	11.092	22.228	39.312	1.00	26.34
ATOM	9057	O	VAL	1247	12.181	22.215	38.730	1.00	33.49
ATOM	9058	N	PHE	1248	10.465	23.347	39.650	1.00	21.51

ATOM	9059	CA	PHE	1248	10.986	24.658	39.301	1.00	19.56
ATOM	9060	CB	PHE	1248	9.886	25.396	38.529	1.00	20.04
ATOM	9061	CG	PHE	1248	10.287	26.738	37.991	1.00	22.94
ATOM	9062	CD1	PHE	1248	10.857	26.852	36.730	1.00	24.98
ATOM	9063	CD2	PHE	1248	10.013	27.900	38.713	1.00	28.62
ATOM	9064	CE1	PHE	1248	11.145	28.097	36.189	1.00	27.24
ATOM	9065	CE2	PHE	1248	10.294	29.155	38.189	1.00	24.33
ATOM	9066	CZ	PHE	1248	10.861	29.255	36.922	1.00	35.94
ATOM	9067	C	PHE	1248	11.387	25.397	40.582	1.00	18.58
ATOM	9068	O	PHE	1248	10.531	25.809	41.370	1.00	16.70
ATOM	9069	N	THR	1249	12.689	25.487	40.830	1.00	19.42
ATOM	9070	CA	THR	1249	13.170	26.187	42.019	1.00	26.60
ATOM	9071	CB	THR	1249	14.230	25.384	42.829	1.00	27.33
ATOM	9072	OG1	THR	1249	15.356	25.061	42.001	1.00	34.61
ATOM	9073	CG2	THR	1249	13.633	24.121	43.375	1.00	31.80
ATOM	9074	C	THR	1249	13.734	27.559	41.661	1.00	32.02
ATOM	9075	O	THR	1249	14.694	27.679	40.885	1.00	30.35
ATOM	9076	N	THR	1250	13.101	28.597	42.201	1.00	27.03
ATOM	9077	CA	THR	1250	13.545	29.947	41.946	1.00	19.29
ATOM	9078	CB	THR	1250	12.696	30.682	40.868	1.00	27.04
ATOM	9079	OG1	THR	1250	13.321	31.927	40.509	1.00	33.00
ATOM	9080	CG2	THR	1250	11.308	30.974	41.398	1.00	28.55
ATOM	9081	C	THR	1250	13.563	30.756	43.213	1.00	18.06
ATOM	9082	O	THR	1250	12.930	30.433	44.220	1.00	8.12
ATOM	9083	N	ASP	1251	14.238	31.876	43.062	1.00	25.27
ATOM	9084	CA	ASP	1251	14.501	32.866	44.070	1.00	23.06
ATOM	9085	CB	ASP	1251	15.823	33.489	43.663	1.00	29.57
ATOM	9086	CG	ASP	1251	16.679	33.795	44.817	1.00	37.39
ATOM	9087	OD1	ASP	1251	16.914	34.993	45.087	1.00	35.14
ATOM	9088	OD2	ASP	1251	17.133	32.819	45.449	1.00	42.37
ATOM	9089	C	ASP	1251	13.492	34.002	44.145	1.00	20.60
ATOM	9090	O	ASP	1251	13.096	34.441	45.231	1.00	15.28
ATOM	9091	N	ALA	1252	13.160	34.521	42.965	1.00	21.08
ATOM	9092	CA	ALA	1252	12.295	35.677	42.850	1.00	23.19
ATOM	9093	CB	ALA	1252	13.180	36.915	42.670	1.00	23.98
ATOM	9094	C	ALA	1252	11.264	35.631	41.732	1.00	19.13
ATOM	9095	O	ALA	1252	10.790	34.559	41.353	1.00	18.75
ATOM	9096	N	LYS	1253	10.933	36.827	41.229	1.00	11.30
ATOM	9097	CA	LYS	1253	9.969	37.025	40.155	1.00	10.40
ATOM	9098	CB	LYS	1253	9.871	38.499	39.760	1.00	11.33
ATOM	9099	CG	LYS	1253	9.759	39.527	40.865	1.00	12.99
ATOM	9100	CD	LYS	1253	9.603	40.918	40.224	1.00	16.64
ATOM	9101	CE	LYS	1253	9.827	42.054	41.207	1.00	19.97
ATOM	9102	NZ	LYS	1253	11.240	42.084	41.682	1.00	25.53
ATOM	9103	C	LYS	1253	10.365	36.264	38.902	1.00	11.12
ATOM	9104	O	LYS	1253	11.386	35.554	38.874	1.00	12.66
ATOM	9105	N	THR	1254	9.589	36.487	37.843	1.00	3.19
ATOM	9106	CA	THR	1254	9.833	35.826	36.565	1.00	7.37
ATOM	9107	CB	THR	1254	9.124	34.447	36.501	1.00	6.35
ATOM	9108	OG1	THR	1254	9.069	33.998	35.141	1.00	4.18
ATOM	9109	CG2	THR	1254	7.718	34.525	37.085	1.00	2.00
ATOM	9110	C	THR	1254	9.403	36.629	35.352	1.00	8.58
ATOM	9111	O	THR	1254	8.495	37.455	35.434	1.00	6.92
ATOM	9112	N	HIS	1255	10.085	36.424	34.231	1.00	10.63
ATOM	9113	CA	HIS	1255	9.675	37.122	33.022	1.00	16.81
ATOM	9114	CB	HIS	1255	10.787	37.227	31.981	1.00	18.16
ATOM	9115	CG	HIS	1255	11.826	38.239	32.315	1.00	12.50

ATOM	9116	CD2	HIS	1255	13.176	38.139	32.379	1.00	6.75
ATOM	9117	ND1	HIS	1255	11.512	39.516	32.711	1.00	9.28
ATOM	9118	CE1	HIS	1255	12.624	40.159	33.017	1.00	18.32
ATOM	9119	NE2	HIS	1255	13.646	39.346	32.825	1.00	12.07
ATOM	9120	C	HIS	1255	8.545	36.344	32.406	1.00	15.04
ATOM	9121	O	HIS	1255	8.587	35.113	32.327	1.00	12.53
ATOM	9122	N	ILE	1256	7.525	37.088	31.997	1.00	14.17
ATOM	9123	CA	ILE	1256	6.360	36.535	31.336	1.00	13.63
ATOM	9124	CB	ILE	1256	5.068	37.071	31.964	1.00	12.25
ATOM	9125	CG2	ILE	1256	5.034	36.699	33.440	1.00	7.53
ATOM	9126	CG1	ILE	1256	4.974	38.586	31.785	1.00	11.86
ATOM	9127	CD1	ILE	1256	3.771	39.218	32.462	1.00	12.04
ATOM	9128	C	ILE	1256	6.476	36.946	29.864	1.00	14.49
ATOM	9129	O	ILE	1256	7.468	37.560	29.470	1.00	14.04
ATOM	9130	N	ALA	1257	5.496	36.587	29.045	1.00	10.37
ATOM	9131	CA	ALA	1257	5.574	36.931	27.639	1.00	8.37
ATOM	9132	CB	ALA	1257	4.614	36.107	26.828	1.00	4.94
ATOM	9133	C	ALA	1257	5.321	38.414	27.444	1.00	13.01
ATOM	9134	O	ALA	1257	4.577	39.028	28.211	1.00	11.51
ATOM	9135	N	LEU	1258	5.980	38.959	26.414	1.00	17.46
ATOM	9136	CA	LEU	1258	5.943	40.365	26.011	1.00	10.59
ATOM	9137	CB	LEU	1258	4.557	40.961	26.202	1.00	2.00
ATOM	9138	CG	LEU	1258	3.506	40.257	25.349	1.00	2.00
ATOM	9139	CD1	LEU	1258	2.121	40.752	25.713	1.00	2.00
ATOM	9140	CD2	LEU	1258	3.790	40.468	23.873	1.00	2.00
ATOM	9141	C	LEU	1258	7.037	41.192	26.703	1.00	15.30
ATOM	9142	O	LEU	1258	7.447	42.243	26.203	1.00	17.13
ATOM	9143	N	ASP	1259	7.549	40.666	27.815	1.00	11.51
ATOM	9144	CA	ASP	1259	8.622	41.278	28.586	1.00	4.55
ATOM	9145	CB	ASP	1259	9.012	40.347	29.731	1.00	10.90
ATOM	9146	CG	ASP	1259	8.241	40.613	30.994	1.00	20.37
ATOM	9147	OD1	ASP	1259	7.164	41.245	30.917	1.00	17.32
ATOM	9148	OD2	ASP	1259	8.733	40.189	32.068	1.00	22.44
ATOM	9149	C	ASP	1259	9.876	41.494	27.744	1.00	9.60
ATOM	9150	O	ASP	1259	10.711	42.349	28.056	1.00	18.93
ATOM	9151	N	GLY	1260	10.042	40.667	26.720	1.00	2.04
ATOM	9152	CA	GLY	1260	11.218	40.758	25.879	1.00	2.00
ATOM	9153	C	GLY	1260	11.161	41.777	24.773	1.00	2.00
ATOM	9154	O	GLY	1260	11.979	41.735	23.857	1.00	2.00
ATOM	9155	N	ARG	1261	10.183	42.671	24.820	1.00	4.99
ATOM	9156	CA	ARG	1261	10.088	43.686	23.782	1.00	7.25
ATOM	9157	CB	ARG	1261	8.702	44.340	23.730	1.00	2.63
ATOM	9158	CG	ARG	1261	8.293	44.696	22.313	1.00	2.00
ATOM	9159	CD	ARG	1261	7.992	46.164	22.144	1.00	10.09
ATOM	9160	NE	ARG	1261	6.573	46.490	22.295	1.00	12.91
ATOM	9161	CZ	ARG	1261	5.927	47.371	21.532	1.00	9.15
ATOM	9162	NH1	ARG	1261	6.568	48.009	20.563	1.00	2.00
ATOM	9163	NH2	ARG	1261	4.646	47.634	21.749	1.00	12.88
ATOM	9164	C	ARG	1261	11.143	44.706	24.110	1.00	2.00
ATOM	9165	O	ARG	1261	11.769	45.254	23.217	1.00	3.48
ATOM	9166	N	LEU	1262	11.367	44.918	25.405	1.00	2.00
ATOM	9167	CA	LEU	1262	12.374	45.863	25.860	1.00	2.00
ATOM	9168	CB	LEU	1262	12.488	45.866	27.388	1.00	2.00
ATOM	9169	CG	LEU	1262	11.266	46.101	28.270	1.00	2.00
ATOM	9170	CD1	LEU	1262	11.668	46.965	29.422	1.00	2.00
ATOM	9171	CD2	LEU	1262	10.140	46.764	27.518	1.00	2.00
ATOM	9172	C	LEU	1262	13.699	45.435	25.257	1.00	4.95

ATOM	9173	O	LEU	1262	14.385	46.234	24.638	1.00	14.52
ATOM	9174	N	ALA	1263	14.002	44.148	25.372	1.00	2.00
ATOM	9175	CA	ALA	1263	15.225	43.571	24.840	1.00	2.00
ATOM	9176	CB	ALA	1263	15.368	42.155	25.342	1.00	2.00
ATOM	9177	C	ALA	1263	15.285	43.592	23.312	1.00	2.00
ATOM	9178	O	ALA	1263	16.279	43.193	22.714	1.00	2.00
ATOM	9179	N	GLY	1264	14.219	44.058	22.682	1.00	2.00
ATOM	9180	CA	GLY	1264	14.191	44.102	21.236	1.00	2.00
ATOM	9181	C	GLY	1264	13.599	42.864	20.593	1.00	3.17
ATOM	9182	O	GLY	1264	13.473	42.822	19.374	1.00	2.00
ATOM	9183	N	ILE	1265	13.246	41.862	21.404	1.00	3.35
ATOM	9184	CA	ILE	1265	12.655	40.613	20.913	1.00	5.51
ATOM	9185	CB	ILE	1265	12.924	39.464	21.867	1.00	5.17
ATOM	9186	CG2	ILE	1265	12.420	38.171	21.251	1.00	10.39
ATOM	9187	CG1	ILE	1265	14.420	39.376	22.155	1.00	3.78
ATOM	9188	CD1	ILE	1265	14.795	38.243	23.086	1.00	2.00
ATOM	9189	C	ILE	1265	11.141	40.742	20.711	1.00	6.51
ATOM	9190	O	ILE	1265	10.371	40.885	21.667	1.00	2.00
ATOM	9191	N	VAL	1266	10.713	40.587	19.465	1.00	4.37
ATOM	9192	CA	VAL	1266	9.309	40.763	19.128	1.00	6.45
ATOM	9193	CB	VAL	1266	9.162	42.037	18.272	1.00	10.61
ATOM	9194	CG1	VAL	1266	9.433	43.303	19.120	1.00	3.58
ATOM	9195	CG2	VAL	1266	10.134	41.974	17.110	1.00	8.32
ATOM	9196	C	VAL	1266	8.646	39.574	18.421	1.00	12.43
ATOM	9197	O	VAL	1266	7.600	39.714	17.772	1.00	16.61
ATOM	9198	N	GLN	1267	9.250	38.405	18.569	1.00	14.83
ATOM	9199	CA	GLN	1267	8.745	37.182	17.966	1.00	7.20
ATOM	9200	CB	GLN	1267	9.850	36.545	17.148	1.00	7.12
ATOM	9201	CG	GLN	1267	9.520	35.202	16.596	1.00	18.07
ATOM	9202	CD	GLN	1267	10.717	34.578	15.956	1.00	16.59
ATOM	9203	OE1	GLN	1267	10.839	34.551	14.728	1.00	12.49
ATOM	9204	NE2	GLN	1267	11.632	34.092	16.785	1.00	16.00
ATOM	9205	C	GLN	1267	8.297	36.242	19.086	1.00	13.93
ATOM	9206	O	GLN	1267	9.088	35.914	19.981	1.00	16.58
ATOM	9207	N	PRO	1268	7.041	35.752	19.016	1.00	14.22
ATOM	9208	CD	PRO	1268	6.146	35.938	17.864	1.00	13.91
ATOM	9209	CA	PRO	1268	6.418	34.850	19.998	1.00	11.40
ATOM	9210	CB	PRO	1268	4.971	34.762	19.520	1.00	7.74
ATOM	9211	CG	PRO	1268	4.818	35.896	18.519	1.00	15.62
ATOM	9212	C	PRO	1268	7.028	33.456	20.089	1.00	15.14
ATOM	9213	O	PRO	1268	7.441	32.879	19.082	1.00	15.72
ATOM	9214	N	ASN	1269	7.065	32.922	21.307	1.00	14.14
ATOM	9215	CA	ASN	1269	7.600	31.596	21.559	1.00	10.54
ATOM	9216	CB	ASN	1269	7.497	31.292	23.048	1.00	13.17
ATOM	9217	CG	ASN	1269	8.382	30.151	23.471	1.00	23.56
ATOM	9218	OD1	ASN	1269	8.455	29.113	22.805	1.00	32.79
ATOM	9219	ND2	ASN	1269	9.077	30.335	24.580	1.00	28.10
ATOM	9220	C	ASN	1269	6.784	30.590	20.735	1.00	15.39
ATOM	9221	O	ASN	1269	5.552	30.595	20.772	1.00	24.69
ATOM	9222	N	ASP	1270	7.465	29.747	19.973	1.00	17.11
ATOM	9223	CA	ASP	1270	6.777	28.776	19.134	1.00	18.54
ATOM	9224	CB	ASP	1270	7.520	28.594	17.802	1.00	7.79
ATOM	9225	CG	ASP	1270	8.996	28.222	17.969	1.00	6.59
ATOM	9226	OD1	ASP	1270	9.472	28.027	19.117	1.00	2.01
ATOM	9227	OD2	ASP	1270	9.681	28.116	16.917	1.00	2.00
ATOM	9228	C	ASP	1270	6.473	27.418	19.765	1.00	22.98
ATOM	9229	O	ASP	1270	6.051	26.491	19.065	1.00	26.89

ATOM	9230	N	GLY	1271	6.639	27.309	21.083	1.00	27.23
ATOM	9231	CA	GLY	1271	6.390	26.044	21.757	1.00	25.15
ATOM	9232	C	GLY	1271	7.043	24.949	20.947	1.00	28.34
ATOM	9233	O	GLY	1271	6.425	23.938	20.638	1.00	36.02
ATOM	9234	N	GLN	1272	8.270	25.219	20.511	1.00	31.76
ATOM	9235	CA	GLN	1272	9.034	24.294	19.696	1.00	29.31
ATOM	9236	CB	GLN	1272	9.311	24.925	18.342	1.00	28.91
ATOM	9237	CG	GLN	1272	9.314	23.956	17.208	1.00	50.13
ATOM	9238	CD	GLN	1272	7.919	23.495	16.836	1.00	60.14
ATOM	9239	OE1	GLN	1272	7.539	23.548	15.670	1.00	68.59
ATOM	9240	NE2	GLN	1272	7.151	23.035	17.823	1.00	67.07
ATOM	9241	C	GLN	1272	10.351	24.018	20.381	1.00	26.08
ATOM	9242	O	GLN	1272	10.824	24.830	21.179	1.00	26.11
ATOM	9243	N	CYS	1273	10.959	22.882	20.066	1.00	25.89
ATOM	9244	CA	CYS	1273	12.236	22.566	20.678	1.00	24.52
ATOM	9245	C	CYS	1273	13.398	23.179	19.916	1.00	26.53
ATOM	9246	O	CYS	1273	13.595	22.896	18.723	1.00	23.77
ATOM	9247	CB	CYS	1273	12.441	21.056	20.830	1.00	25.05
ATOM	9248	SG	CYS	1273	14.056	20.623	21.568	1.00	22.29
ATOM	9249	N	HIS	1274	14.135	24.044	20.619	1.00	25.25
ATOM	9250	CA	HIS	1274	15.316	24.724	20.087	1.00	22.40
ATOM	9251	CB	HIS	1274	15.033	26.219	19.899	1.00	18.54
ATOM	9252	CG	HIS	1274	13.941	26.506	18.921	1.00	18.09
ATOM	9253	CD2	HIS	1274	12.702	27.025	19.089	1.00	18.41
ATOM	9254	ND1	HIS	1274	14.040	26.186	17.579	1.00	17.65
ATOM	9255	CE1	HIS	1274	12.908	26.487	16.973	1.00	18.19
ATOM	9256	NE2	HIS	1274	12.077	27.000	17.865	1.00	17.39
ATOM	9257	C	HIS	1274	16.497	24.523	21.048	1.00	21.83
ATOM	9258	O	HIS	1274	17.064	25.487	21.557	1.00	26.32
ATOM	9259	N	VAL	1275	16.840	23.264	21.319	1.00	23.07
ATOM	9260	CA	VAL	1275	17.946	22.931	22.218	1.00	19.50
ATOM	9261	CB	VAL	1275	17.444	22.471	23.601	1.00	8.46
ATOM	9262	CG1	VAL	1275	18.609	22.271	24.543	1.00	2.00
ATOM	9263	CG2	VAL	1275	16.490	23.482	24.174	1.00	7.05
ATOM	9264	C	VAL	1275	18.774	21.812	21.596	1.00	26.03
ATOM	9265	O	VAL	1275	18.514	20.636	21.836	1.00	21.91
ATOM	9266	N	GLY	1276	19.782	22.195	20.815	1.00	37.36
ATOM	9267	CA	GLY	1276	20.624	21.223	20.137	1.00	45.97
ATOM	9268	C	GLY	1276	21.816	20.621	20.868	1.00	52.01
ATOM	9269	O	GLY	1276	21.852	20.538	22.103	1.00	50.31
ATOM	9270	N	SER	1277	22.794	20.202	20.066	1.00	51.12
ATOM	9271	CA	SER	1277	24.035	19.573	20.519	1.00	51.87
ATOM	9272	CB	SER	1277	25.033	19.544	19.367	1.00	54.91
ATOM	9273	OG	SER	1277	25.200	20.849	18.836	1.00	63.27
ATOM	9274	C	SER	1277	24.708	20.193	21.737	1.00	46.68
ATOM	9275	O	SER	1277	25.087	19.487	22.663	1.00	49.14
ATOM	9276	N	ASP	1278	24.869	21.510	21.733	1.00	44.99
ATOM	9277	CA	ASP	1278	25.524	22.195	22.841	1.00	41.82
ATOM	9278	CB	ASP	1278	26.036	23.560	22.392	1.00	42.02
ATOM	9279	CG	ASP	1278	24.936	24.438	21.864	1.00	44.41
ATOM	9280	OD1	ASP	1278	24.529	25.364	22.589	1.00	43.60
ATOM	9281	OD2	ASP	1278	24.469	24.190	20.731	1.00	48.67
ATOM	9282	C	ASP	1278	24.650	22.342	24.079	1.00	41.84
ATOM	9283	O	ASP	1278	25.015	23.049	25.021	1.00	43.55
ATOM	9284	N	ASN	1279	23.493	21.685	24.064	1.00	35.97
ATOM	9285	CA	ASN	1279	22.554	21.700	25.188	1.00	36.10
ATOM	9286	CB	ASN	1279	23.050	20.777	26.322	1.00	38.94

ATOM	9287	CG	ASN	1279	23.485	19.389	25.823	1.00	36.68
ATOM	9288	OD1	ASN	1279	24.489	18.852	26.283	1.00	34.53
ATOM	9289	ND2	ASN	1279	22.731	18.816	24.887	1.00	39.06
ATOM	9290	C	ASN	1279	22.247	23.107	25.735	1.00	32.64
ATOM	9291	O	ASN	1279	22.243	23.346	26.949	1.00	29.82
ATOM	9292	N	HIS	1280	21.989	24.031	24.818	1.00	33.56
ATOM	9293	CA	HIS	1280	21.661	25.411	25.159	1.00	35.20
ATOM	9294	CB	HIS	1280	22.859	26.332	24.906	1.00	42.68
ATOM	9295	CG	HIS	1280	23.920	26.269	25.959	1.00	49.20
ATOM	9296	CD2	HIS	1280	23.836	26.246	27.311	1.00	51.77
ATOM	9297	ND1	HIS	1280	25.266	26.301	25.659	1.00	48.00
ATOM	9298	CE1	HIS	1280	25.964	26.307	26.781	1.00	49.49
ATOM	9299	NE2	HIS	1280	25.122	26.273	27.797	1.00	48.84
ATOM	9300	C	HIS	1280	20.500	25.874	24.284	1.00	34.17
ATOM	9301	O	HIS	1280	20.475	25.598	23.073	1.00	32.09
ATOM	9302	N	TYR	1281	19.545	26.574	24.897	1.00	29.74
ATOM	9303	CA	TYR	1281	18.377	27.089	24.181	1.00	23.97
ATOM	9304	CB	TYR	1281	17.363	27.655	25.186	1.00	18.02
ATOM	9305	CG	TYR	1281	16.132	28.338	24.590	1.00	13.92
ATOM	9306	CD1	TYR	1281	15.796	28.209	23.237	1.00	18.24
ATOM	9307	CE1	TYR	1281	14.653	28.818	22.717	1.00	17.61
ATOM	9308	CD2	TYR	1281	15.295	29.097	25.396	1.00	2.19
ATOM	9309	CE2	TYR	1281	14.164	29.701	24.890	1.00	9.95
ATOM	9310	CZ	TYR	1281	13.838	29.563	23.557	1.00	19.83
ATOM	9311	OH	TYR	1281	12.683	30.165	23.090	1.00	32.01
ATOM	9312	C	TYR	1281	18.839	28.168	23.204	1.00	20.74
ATOM	9313	O	TYR	1281	18.985	29.328	23.576	1.00	30.46
ATOM	9314	N	SER	1282	19.034	27.787	21.950	1.00	11.30
ATOM	9315	CA	SER	1282	19.514	28.715	20.940	1.00	13.76
ATOM	9316	CB	SER	1282	19.792	27.968	19.648	1.00	11.96
ATOM	9317	OG	SER	1282	18.715	27.109	19.347	1.00	28.76
ATOM	9318	C	SER	1282	18.661	29.948	20.655	1.00	18.31
ATOM	9319	O	SER	1282	19.189	31.053	20.512	1.00	23.46
ATOM	9320	N	ALA	1283	17.351	29.779	20.580	1.00	12.92
ATOM	9321	CA	ALA	1283	16.493	30.918	20.297	1.00	11.92
ATOM	9322	CB	ALA	1283	15.161	30.449	19.765	1.00	19.89
ATOM	9323	C	ALA	1283	16.281	31.820	21.501	1.00	8.33
ATOM	9324	O	ALA	1283	15.511	32.775	21.422	1.00	7.35
ATOM	9325	N	SER	1284	16.970	31.534	22.603	1.00	5.91
ATOM	9326	CA	SER	1284	16.831	32.316	23.829	1.00	3.16
ATOM	9327	CB	SER	1284	17.949	31.988	24.822	1.00	2.00
ATOM	9328	OG	SER	1284	17.714	32.592	26.088	1.00	2.00
ATOM	9329	C	SER	1284	16.844	33.798	23.541	1.00	6.73
ATOM	9330	O	SER	1284	15.941	34.523	23.946	1.00	7.14
ATOM	9331	N	THR	1285	17.834	34.221	22.760	1.00	12.51
ATOM	9332	CA	THR	1285	18.001	35.629	22.406	1.00	9.99
ATOM	9333	CB	THR	1285	19.481	35.956	22.107	1.00	3.40
ATOM	9334	OG1	THR	1285	19.884	35.323	20.884	1.00	2.00
ATOM	9335	CG2	THR	1285	20.370	35.471	23.249	1.00	10.01
ATOM	9336	C	THR	1285	17.160	36.114	21.228	1.00	4.88
ATOM	9337	O	THR	1285	16.898	37.305	21.114	1.00	15.12
ATOM	9338	N	THR	1286	16.719	35.203	20.376	1.00	2.00
ATOM	9339	CA	THR	1286	15.950	35.584	19.207	1.00	2.00
ATOM	9340	CB	THR	1286	16.391	34.756	17.999	1.00	2.80
ATOM	9341	OG1	THR	1286	15.703	33.500	17.993	1.00	14.45
ATOM	9342	CG2	THR	1286	17.872	34.464	18.088	1.00	13.42
ATOM	9343	C	THR	1286	14.441	35.415	19.357	1.00	5.55

ATOM	9344	O	THR	1286	13.697	35.714	18.420	1.00	5.08
ATOM	9345	N	MET	1287	13.977	35.021	20.541	1.00	10.07
ATOM	9346	CA	MET	1287	12.547	34.759	20.724	1.00	16.02
ATOM	9347	CB	MET	1287	12.273	33.311	20.308	1.00	20.53
ATOM	9348	CG	MET	1287	10.856	32.807	20.465	1.00	14.49
ATOM	9349	SD	MET	1287	10.900	31.055	20.091	1.00	17.21
ATOM	9350	CE	MET	1287	11.297	31.096	18.306	1.00	2.00
ATOM	9351	C	MET	1287	12.010	34.986	22.132	1.00	13.03
ATOM	9352	O	MET	1287	12.537	34.423	23.099	1.00	17.65
ATOM	9353	N	ASP	1288	10.877	35.690	22.207	1.00	2.34
ATOM	9354	CA	ASP	1288	10.222	36.036	23.464	1.00	2.00
ATOM	9355	CB	ASP	1288	8.896	36.738	23.164	1.00	4.19
ATOM	9356	CG	ASP	1288	8.497	37.762	24.239	1.00	4.63
ATOM	9357	OD1	ASP	1288	9.066	37.761	25.352	1.00	2.00
ATOM	9358	OD2	ASP	1288	7.605	38.593	23.961	1.00	3.56
ATOM	9359	C	ASP	1288	9.964	34.859	24.411	1.00	8.16
ATOM	9360	O	ASP	1288	10.094	33.693	24.033	1.00	17.22
ATOM	9361	N	TYR	1289	9.640	35.191	25.662	1.00	5.16
ATOM	9362	CA	TYR	1289	9.319	34.220	26.709	1.00	2.00
ATOM	9363	CB	TYR	1289	9.236	34.925	28.072	1.00	6.45
ATOM	9364	CG	TYR	1289	10.518	35.641	28.485	1.00	6.24
ATOM	9365	CD1	TYR	1289	10.764	36.954	28.102	1.00	13.10
ATOM	9366	CE1	TYR	1289	11.961	37.596	28.438	1.00	17.94
ATOM	9367	CD2	TYR	1289	11.499	34.985	29.217	1.00	8.49
ATOM	9368	CE2	TYR	1289	12.693	35.613	29.555	1.00	14.74
ATOM	9369	CZ	TYR	1289	12.924	36.916	29.164	1.00	15.86
ATOM	9370	OH	TYR	1289	14.115	37.527	29.494	1.00	2.00
ATOM	9371	C	TYR	1289	7.957	33.660	26.336	1.00	4.28
ATOM	9372	O	TYR	1289	7.130	34.375	25.759	1.00	12.60
ATOM	9373	N	PRO	1290	7.696	32.381	26.659	1.00	8.43
ATOM	9374	CD	PRO	1290	8.550	31.529	27.506	1.00	9.34
ATOM	9375	CA	PRO	1290	6.425	31.701	26.356	1.00	10.38
ATOM	9376	CB	PRO	1290	6.772	30.247	26.595	1.00	2.02
ATOM	9377	CG	PRO	1290	7.643	30.338	27.814	1.00	6.42
ATOM	9378	C	PRO	1290	5.281	32.155	27.275	1.00	9.55
ATOM	9379	O	PRO	1290	5.513	32.546	28.428	1.00	16.04
ATOM	9380	N	SER	1291	4.055	32.128	26.767	1.00	2.00
ATOM	9381	CA	SER	1291	2.931	32.554	27.585	1.00	9.90
ATOM	9382	CB	SER	1291	1.841	33.146	26.718	1.00	2.00
ATOM	9383	OG	SER	1291	1.608	32.313	25.608	1.00	11.67
ATOM	9384	C	SER	1291	2.351	31.431	28.441	1.00	21.38
ATOM	9385	O	SER	1291	2.626	30.236	28.217	1.00	25.02
ATOM	9386	N	LEU	1292	1.537	31.833	29.419	1.00	19.56
ATOM	9387	CA	LEU	1292	0.887	30.910	30.341	1.00	10.26
ATOM	9388	CB	LEU	1292	0.007	31.696	31.312	1.00	2.00
ATOM	9389	CG	LEU	1292	0.499	31.812	32.753	1.00	3.82
ATOM	9390	CD1	LEU	1292	1.931	32.296	32.798	1.00	7.25
ATOM	9391	CD2	LEU	1292	-0.417	32.729	33.552	1.00	2.00
ATOM	9392	C	LEU	1292	0.064	29.830	29.621	1.00	11.40
ATOM	9393	O	LEU	1292	-0.039	28.697	30.095	1.00	9.99
ATOM	9394	N	GLY	1293	-0.469	30.176	28.453	1.00	12.68
ATOM	9395	CA	GLY	1293	-1.279	29.239	27.706	1.00	16.66
ATOM	9396	C	GLY	1293	-0.473	28.243	26.908	1.00	17.13
ATOM	9397	O	GLY	1293	-0.787	27.058	26.887	1.00	21.86
ATOM	9398	N	LEU	1294	0.544	28.728	26.213	1.00	20.26
ATOM	9399	CA	LEU	1294	1.380	27.853	25.415	1.00	20.10
ATOM	9400	CB	LEU	1294	2.428	28.661	24.664	1.00	12.29

ATOM	9401	CG	LEU	1294	3.114	27.896	23.541	1.00	13.65
ATOM	9402	CD1	LEU	1294	2.147	27.767	22.367	1.00	13.29
ATOM	9403	CD2	LEU	1294	4.396	28.604	23.119	1.00	14.15
ATOM	9404	C	LEU	1294	2.052	26.864	26.366	1.00	20.83
ATOM	9405	O	LEU	1294	2.262	25.693	26.027	1.00	17.64
ATOM	9406	N	MET	1295	2.382	27.334	27.564	1.00	19.12
ATOM	9407	CA	MET	1295	2.993	26.451	28.542	1.00	24.11
ATOM	9408	CB	MET	1295	3.428	27.208	29.790	1.00	18.58
ATOM	9409	CG	MET	1295	4.714	27.966	29.600	1.00	19.28
ATOM	9410	SD	MET	1295	5.416	28.453	31.159	1.00	27.84
ATOM	9411	CE	MET	1295	4.430	29.907	31.471	1.00	28.44
ATOM	9412	C	MET	1295	1.944	25.423	28.883	1.00	23.02
ATOM	9413	O	MET	1295	2.140	24.235	28.665	1.00	26.99
ATOM	9414	N	THR	1296	0.794	25.905	29.334	1.00	19.84
ATOM	9415	CA	THR	1296	-0.327	25.046	29.684	1.00	16.79
ATOM	9416	CB	THR	1296	-1.612	25.878	29.810	1.00	11.97
ATOM	9417	OG1	THR	1296	-1.632	26.526	31.085	1.00	4.81
ATOM	9418	CG2	THR	1296	-2.836	25.017	29.639	1.00	13.50
ATOM	9419	C	THR	1296	-0.487	23.984	28.604	1.00	17.17
ATOM	9420	O	THR	1296	-0.299	22.799	28.860	1.00	17.95
ATOM	9421	N	GLU	1297	-0.737	24.434	27.380	1.00	18.30
ATOM	9422	CA	GLU	1297	-0.904	23.543	26.249	1.00	14.60
ATOM	9423	CB	GLU	1297	-1.000	24.360	24.957	1.00	12.87
ATOM	9424	CG	GLU	1297	-0.975	23.549	23.683	1.00	18.89
ATOM	9425	CD	GLU	1297	-1.405	24.361	22.470	1.00	32.16
ATOM	9426	OE1	GLU	1297	-0.535	24.874	21.730	1.00	37.99
ATOM	9427	OE2	GLU	1297	-2.632	24.483	22.249	1.00	43.70
ATOM	9428	C	GLU	1297	0.229	22.514	26.179	1.00	12.14
ATOM	9429	O	GLU	1297	0.000	21.343	26.455	1.00	19.71
ATOM	9430	N	LYS	1298	1.455	22.952	25.912	1.00	9.28
ATOM	9431	CA	LYS	1298	2.584	22.022	25.811	1.00	7.13
ATOM	9432	CB	LYS	1298	3.867	22.782	25.492	1.00	3.90
ATOM	9433	CG	LYS	1298	3.827	23.465	24.150	1.00	10.53
ATOM	9434	CD	LYS	1298	3.776	22.459	23.022	1.00	15.86
ATOM	9435	CE	LYS	1298	3.437	23.154	21.711	1.00	27.01
ATOM	9436	NZ	LYS	1298	3.438	22.222	20.535	1.00	42.66
ATOM	9437	C	LYS	1298	2.799	21.161	27.052	1.00	4.96
ATOM	9438	O	LYS	1298	3.189	20.001	26.966	1.00	3.17
ATOM	9439	N	LEU	1299	2.515	21.738	28.206	1.00	4.97
ATOM	9440	CA	LEU	1299	2.690	21.056	29.464	1.00	4.35
ATOM	9441	CB	LEU	1299	2.455	22.041	30.611	1.00	2.00
ATOM	9442	CG	LEU	1299	3.339	21.936	31.843	1.00	2.00
ATOM	9443	CD1	LEU	1299	4.790	21.844	31.413	1.00	2.00
ATOM	9444	CD2	LEU	1299	3.110	23.136	32.732	1.00	2.00
ATOM	9445	C	LEU	1299	1.728	19.881	29.551	1.00	13.78
ATOM	9446	O	LEU	1299	2.138	18.767	29.876	1.00	24.47
ATOM	9447	N	SER	1300	0.467	20.110	29.192	1.00	12.14
ATOM	9448	CA	SER	1300	-0.541	19.059	29.266	1.00	9.49
ATOM	9449	CB	SER	1300	-1.941	19.666	29.256	1.00	9.42
ATOM	9450	OG	SER	1300	-2.485	19.617	27.946	1.00	22.77
ATOM	9451	C	SER	1300	-0.433	18.002	28.164	1.00	5.49
ATOM	9452	O	SER	1300	-0.821	16.855	28.349	1.00	7.34
ATOM	9453	N	GLN	1301	0.067	18.398	27.007	1.00	2.00
ATOM	9454	CA	GLN	1301	0.195	17.467	25.905	1.00	10.20
ATOM	9455	CB	GLN	1301	0.535	18.212	24.635	1.00	6.37
ATOM	9456	CG	GLN	1301	-0.506	19.201	24.244	1.00	26.97
ATOM	9457	CD	GLN	1301	-0.255	19.745	22.868	1.00	41.78

ATOM	9458	OE1	GLN	1301	0.797	19.482	22.267	1.00	46.57
ATOM	9459	NE2	GLN	1301	-1.224	20.498	22.340	1.00	45.52
ATOM	9460	C	GLN	1301	1.259	16.421	26.157	1.00	18.84
ATOM	9461	O	GLN	1301	1.127	15.269	25.751	1.00	21.90
ATOM	9462	N	LYS	1302	2.331	16.842	26.810	1.00	23.56
ATOM	9463	CA	LYS	1302	3.438	15.954	27.105	1.00	25.32
ATOM	9464	CB	LYS	1302	4.737	16.742	27.001	1.00	24.87
ATOM	9465	CG	LYS	1302	4.890	17.457	25.677	1.00	14.34
ATOM	9466	CD	LYS	1302	5.148	16.478	24.576	1.00	12.06
ATOM	9467	CE	LYS	1302	5.589	17.193	23.323	1.00	18.77
ATOM	9468	NZ	LYS	1302	6.193	16.265	22.320	1.00	20.33
ATOM	9469	C	LYS	1302	3.287	15.308	28.486	1.00	27.10
ATOM	9470	O	LYS	1302	4.226	14.687	29.011	1.00	27.65
ATOM	9471	N	ASN	1303	2.088	15.446	29.049	1.00	25.80
ATOM	9472	CA	ASN	1303	1.744	14.894	30.360	1.00	29.79
ATOM	9473	CB	ASN	1303	1.427	13.391	30.243	1.00	26.36
ATOM	9474	CG	ASN	1303	0.152	13.108	29.442	1.00	20.88
ATOM	9475	OD1	ASN	1303	0.192	12.419	28.429	1.00	19.81
ATOM	9476	ND2	ASN	1303	-0.981	13.614	29.919	1.00	20.95
ATOM	9477	C	ASN	1303	2.821	15.148	31.427	1.00	30.73
ATOM	9478	O	ASN	1303	3.188	14.247	32.191	1.00	31.65
ATOM	9479	N	ILE	1304	3.315	16.385	31.468	1.00	27.57
ATOM	9480	CA	ILE	1304	4.350	16.791	32.421	1.00	22.09
ATOM	9481	CB	ILE	1304	5.476	17.584	31.693	1.00	20.25
ATOM	9482	CG2	ILE	1304	6.532	18.091	32.687	1.00	14.11
ATOM	9483	CG1	ILE	1304	6.098	16.679	30.620	1.00	21.90
ATOM	9484	CD1	ILE	1304	7.141	17.322	29.747	1.00	23.87
ATOM	9485	C	ILE	1304	3.739	17.611	33.561	1.00	19.63
ATOM	9486	O	ILE	1304	2.890	18.474	33.330	1.00	22.60
ATOM	9487	N	ASN	1305	4.149	17.311	34.788	1.00	12.95
ATOM	9488	CA	ASN	1305	3.633	18.009	35.957	1.00	17.96
ATOM	9489	CB	ASN	1305	3.293	17.006	37.053	1.00	21.26
ATOM	9490	CG	ASN	1305	1.942	16.386	36.862	1.00	21.67
ATOM	9491	OD1	ASN	1305	0.925	17.073	36.952	1.00	32.44
ATOM	9492	ND2	ASN	1305	1.910	15.082	36.604	1.00	22.56
ATOM	9493	C	ASN	1305	4.577	19.062	36.510	1.00	21.27
ATOM	9494	O	ASN	1305	5.638	18.737	37.038	1.00	20.74
ATOM	9495	N	LEU	1306	4.177	20.326	36.419	1.00	20.95
ATOM	9496	CA	LEU	1306	5.011	21.402	36.930	1.00	21.49
ATOM	9497	CB	LEU	1306	4.770	22.704	36.158	1.00	23.07
ATOM	9498	CG	LEU	1306	5.740	23.841	36.502	1.00	15.31
ATOM	9499	CD1	LEU	1306	7.153	23.432	36.133	1.00	19.36
ATOM	9500	CD2	LEU	1306	5.363	25.084	35.758	1.00	11.30
ATOM	9501	C	LEU	1306	4.847	21.646	38.432	1.00	23.30
ATOM	9502	O	LEU	1306	3.732	21.836	38.943	1.00	21.73
ATOM	9503	N	ILE	1307	5.976	21.614	39.129	1.00	22.77
ATOM	9504	CA	ILE	1307	6.004	21.855	40.560	1.00	20.06
ATOM	9505	CB	ILE	1307	6.840	20.802	41.305	1.00	22.46
ATOM	9506	CG2	ILE	1307	6.411	20.752	42.764	1.00	13.19
ATOM	9507	CG1	ILE	1307	6.709	19.429	40.643	1.00	24.35
ATOM	9508	CD1	ILE	1307	5.327	18.838	40.709	1.00	31.42
ATOM	9509	C	ILE	1307	6.690	23.198	40.754	1.00	19.73
ATOM	9510	O	ILE	1307	7.567	23.570	39.979	1.00	21.92
ATOM	9511	N	PHE	1308	6.301	23.919	41.795	1.00	23.80
ATOM	9512	CA	PHE	1308	6.893	25.215	42.070	1.00	27.08
ATOM	9513	CB	PHE	1308	5.840	26.314	42.012	1.00	28.39
ATOM	9514	CG	PHE	1308	5.627	26.869	40.648	1.00	32.00

ATOM	9515	CD1	PHE	1308	6.703	27.065	39.794	1.00	33.73
ATOM	9516	CD2	PHE	1308	4.354	27.215	40.217	1.00	36.87
ATOM	9517	CE1	PHE	1308	6.514	27.604	38.524	1.00	40.04
ATOM	9518	CE2	PHE	1308	4.150	27.756	38.947	1.00	39.14
ATOM	9519	CZ	PHE	1308	5.233	27.954	38.099	1.00	37.19
ATOM	9520	C	PHE	1308	7.594	25.257	43.407	1.00	29.47
ATOM	9521	O	PHE	1308	7.049	25.765	44.387	1.00	29.95
ATOM	9522	N	ALA	1309	8.805	24.714	43.445	1.00	35.07
ATOM	9523	CA	ALA	1309	9.599	24.709	44.669	1.00	37.51
ATOM	9524	CB	ALA	1309	10.593	23.556	44.644	1.00	38.69
ATOM	9525	C	ALA	1309	10.320	26.057	44.778	1.00	37.78
ATOM	9526	O	ALA	1309	11.444	26.217	44.285	1.00	37.26
ATOM	9527	N	VAL	1310	9.651	27.024	45.408	1.00	30.49
ATOM	9528	CA	VAL	1310	10.193	28.376	45.555	1.00	28.45
ATOM	9529	CB	VAL	1310	9.283	29.404	44.852	1.00	29.07
ATOM	9530	CG1	VAL	1310	9.072	29.011	43.390	1.00	31.91
ATOM	9531	CG2	VAL	1310	7.950	29.495	45.564	1.00	27.97
ATOM	9532	C	VAL	1310	10.394	28.800	47.009	1.00	24.75
ATOM	9533	O	VAL	1310	9.856	28.175	47.920	1.00	22.44
ATOM	9534	N	THR	1311	11.172	29.867	47.208	1.00	21.86
ATOM	9535	CA	THR	1311	11.474	30.411	48.535	1.00	16.95
ATOM	9536	CB	THR	1311	12.711	31.303	48.488	1.00	16.67
ATOM	9537	OG1	THR	1311	12.651	32.153	47.336	1.00	14.88
ATOM	9538	CG2	THR	1311	13.956	30.444	48.405	1.00	22.34
ATOM	9539	C	THR	1311	10.298	31.178	49.116	1.00	18.74
ATOM	9540	O	THR	1311	9.518	31.771	48.370	1.00	15.42
ATOM	9541	N	GLU	1312	10.199	31.193	50.447	1.00	23.26
ATOM	9542	CA	GLU	1312	9.080	31.833	51.152	1.00	33.95
ATOM	9543	CB	GLU	1312	9.374	31.968	52.650	1.00	43.52
ATOM	9544	CG	GLU	1312	8.134	32.285	53.507	1.00	58.14
ATOM	9545	CD	GLU	1312	7.021	31.237	53.380	1.00	67.05
ATOM	9546	OE1	GLU	1312	7.222	30.082	53.817	1.00	64.26
ATOM	9547	OE2	GLU	1312	5.935	31.574	52.847	1.00	72.96
ATOM	9548	C	GLU	1312	8.544	33.150	50.590	1.00	33.99
ATOM	9549	O	GLU	1312	7.408	33.203	50.118	1.00	35.84
ATOM	9550	N	ASN	1313	9.368	34.195	50.631	1.00	37.89
ATOM	9551	CA	ASN	1313	9.023	35.535	50.132	1.00	35.89
ATOM	9552	CB	ASN	1313	10.306	36.344	49.943	1.00	30.38
ATOM	9553	CG	ASN	1313	11.251	35.706	48.927	1.00	25.05
ATOM	9554	OD1	ASN	1313	11.847	34.662	49.188	1.00	27.13
ATOM	9555	ND2	ASN	1313	11.374	36.323	47.758	1.00	18.42
ATOM	9556	C	ASN	1313	8.235	35.580	48.811	1.00	36.04
ATOM	9557	O	ASN	1313	7.397	36.459	48.614	1.00	40.23
ATOM	9558	N	VAL	1314	8.490	34.611	47.934	1.00	34.93
ATOM	9559	CA	VAL	1314	7.869	34.549	46.615	1.00	31.87
ATOM	9560	CB	VAL	1314	9.006	34.384	45.555	1.00	26.74
ATOM	9561	CG1	VAL	1314	9.513	32.959	45.528	1.00	27.68
ATOM	9562	CG2	VAL	1314	8.573	34.840	44.196	1.00	33.42
ATOM	9563	C	VAL	1314	6.787	33.456	46.442	1.00	30.83
ATOM	9564	O	VAL	1314	6.252	33.276	45.338	1.00	28.68
ATOM	9565	N	VAL	1315	6.430	32.766	47.530	1.00	28.71
ATOM	9566	CA	VAL	1315	5.433	31.685	47.467	1.00	33.39
ATOM	9567	CB	VAL	1315	5.221	30.983	48.837	1.00	32.55
ATOM	9568	CG1	VAL	1315	4.156	29.894	48.720	1.00	26.05
ATOM	9569	CG2	VAL	1315	6.511	30.359	49.305	1.00	29.22
ATOM	9570	C	VAL	1315	4.079	32.103	46.908	1.00	36.46
ATOM	9571	O	VAL	1315	3.680	31.634	45.845	1.00	42.29

ATOM	9572	N	ASN	1316	3.391	32.994	47.615	1.00	32.51
ATOM	9573	CA	ASN	1316	2.081	33.496	47.206	1.00	32.10
ATOM	9574	CB	ASN	1316	1.711	34.695	48.069	1.00	33.73
ATOM	9575	CG	ASN	1316	1.849	34.409	49.543	1.00	38.98
ATOM	9576	OD1	ASN	1316	0.930	34.658	50.318	1.00	48.34
ATOM	9577	ND2	ASN	1316	3.006	33.888	49.945	1.00	41.27
ATOM	9578	C	ASN	1316	2.013	33.883	45.721	1.00	30.62
ATOM	9579	O	ASN	1316	0.960	33.784	45.088	1.00	30.48
ATOM	9580	N	LEU	1317	3.141	34.321	45.173	1.00	26.59
ATOM	9581	CA	LEU	1317	3.225	34.699	43.771	1.00	26.08
ATOM	9582	CB	LEU	1317	4.599	35.304	43.466	1.00	30.52
ATOM	9583	CG	LEU	1317	4.826	35.742	42.017	1.00	24.07
ATOM	9584	CD1	LEU	1317	3.868	36.873	41.676	1.00	37.25
ATOM	9585	CD2	LEU	1317	6.239	36.193	41.816	1.00	12.85
ATOM	9586	C	LEU	1317	3.002	33.482	42.877	1.00	24.97
ATOM	9587	O	LEU	1317	2.065	33.442	42.081	1.00	30.58
ATOM	9588	N	TYR	1318	3.867	32.486	43.016	1.00	17.05
ATOM	9589	CA	TYR	1318	3.754	31.281	42.216	1.00	17.37
ATOM	9590	CB	TYR	1318	5.023	30.453	42.367	1.00	19.98
ATOM	9591	CG	TYR	1318	6.185	31.114	41.670	1.00	22.20
ATOM	9592	CD1	TYR	1318	6.969	32.066	42.320	1.00	18.06
ATOM	9593	CE1	TYR	1318	7.981	32.731	41.641	1.00	19.52
ATOM	9594	CD2	TYR	1318	6.450	30.845	40.327	1.00	23.41
ATOM	9595	CE2	TYR	1318	7.457	31.506	39.644	1.00	18.53
ATOM	9596	CZ	TYR	1318	8.215	32.443	40.302	1.00	21.36
ATOM	9597	OH	TYR	1318	9.205	33.089	39.608	1.00	33.58
ATOM	9598	C	TYR	1318	2.499	30.464	42.504	1.00	16.59
ATOM	9599	O	TYR	1318	2.139	29.573	41.749	1.00	14.33
ATOM	9600	N	GLN	1319	1.823	30.797	43.593	1.00	21.00
ATOM	9601	CA	GLN	1319	0.590	30.129	43.982	1.00	21.23
ATOM	9602	CB	GLN	1319	0.318	30.406	45.446	1.00	26.93
ATOM	9603	CG	GLN	1319	-0.635	29.462	46.114	1.00	42.15
ATOM	9604	CD	GLN	1319	-0.556	29.608	47.621	1.00	53.74
ATOM	9605	OE1	GLN	1319	0.274	28.966	48.280	1.00	49.26
ATOM	9606	NE2	GLN	1319	-1.382	30.497	48.169	1.00	61.38
ATOM	9607	C	GLN	1319	-0.514	30.741	43.134	1.00	25.23
ATOM	9608	O	GLN	1319	-1.453	30.063	42.716	1.00	26.36
ATOM	9609	N	ASN	1320	-0.392	32.042	42.902	1.00	23.16
ATOM	9610	CA	ASN	1320	-1.336	32.780	42.085	1.00	22.23
ATOM	9611	CB	ASN	1320	-1.158	34.285	42.300	1.00	27.33
ATOM	9612	CG	ASN	1320	-1.506	34.717	43.724	1.00	35.38
ATOM	9613	OD1	ASN	1320	-1.965	33.908	44.525	1.00	39.49
ATOM	9614	ND2	ASN	1320	-1.298	35.987	44.053	1.00	45.07
ATOM	9615	C	ASN	1320	-1.062	32.374	40.644	1.00	20.89
ATOM	9616	O	ASN	1320	-1.983	32.235	39.852	1.00	25.14
ATOM	9617	N	TYR	1321	0.205	32.135	40.323	1.00	21.73
ATOM	9618	CA	TYR	1321	0.574	31.695	38.984	1.00	24.10
ATOM	9619	CB	TYR	1321	2.085	31.688	38.803	1.00	19.59
ATOM	9620	CG	TYR	1321	2.647	33.000	38.370	1.00	21.67
ATOM	9621	CD1	TYR	1321	2.233	33.599	37.189	1.00	20.93
ATOM	9622	CE1	TYR	1321	2.740	34.841	36.803	1.00	27.47
ATOM	9623	CD2	TYR	1321	3.583	33.667	39.158	1.00	31.04
ATOM	9624	CE2	TYR	1321	4.096	34.906	38.781	1.00	25.72
ATOM	9625	CZ	TYR	1321	3.670	35.487	37.608	1.00	21.59
ATOM	9626	OH	TYR	1321	4.169	36.709	37.259	1.00	8.17
ATOM	9627	C	TYR	1321	0.070	30.281	38.754	1.00	24.96
ATOM	9628	O	TYR	1321	-0.191	29.888	37.616	1.00	26.63

ATOM	9629	N	SER	1322	-0.036	29.507	39.835	1.00	29.29
ATOM	9630	CA	SER	1322	-0.488	28.123	39.739	1.00	29.71
ATOM	9631	CB	SER	1322	-0.046	27.327	40.952	1.00	30.90
ATOM	9632	OG	SER	1322	-0.607	27.872	42.126	1.00	41.79
ATOM	9633	C	SER	1322	-1.991	28.013	39.552	1.00	27.26
ATOM	9634	O	SER	1322	-2.468	27.067	38.923	1.00	24.59
ATOM	9635	N	GLU	1323	-2.736	28.968	40.105	1.00	25.98
ATOM	9636	CA	GLU	1323	-4.190	28.973	39.944	1.00	31.11
ATOM	9637	CB	GLU	1323	-4.812	30.189	40.633	1.00	37.39
ATOM	9638	CG	GLU	1323	-4.687	30.276	42.147	1.00	50.33
ATOM	9639	CD	GLU	1323	-5.355	31.551	42.718	1.00	65.91
ATOM	9640	OE1	GLU	1323	-6.165	32.201	42.002	1.00	66.68
ATOM	9641	OE2	GLU	1323	-5.070	31.903	43.888	1.00	68.39
ATOM	9642	C	GLU	1323	-4.520	29.061	38.438	1.00	31.73
ATOM	9643	O	GLU	1323	-5.590	28.626	37.989	1.00	29.53
ATOM	9644	N	LEU	1324	-3.605	29.658	37.676	1.00	24.71
ATOM	9645	CA	LEU	1324	-3.786	29.828	36.241	1.00	20.88
ATOM	9646	CB	LEU	1324	-3.264	31.189	35.772	1.00	20.94
ATOM	9647	CG	LEU	1324	-4.134	32.428	35.991	1.00	3.73
ATOM	9648	CD1	LEU	1324	-4.130	32.829	37.450	1.00	18.39
ATOM	9649	CD2	LEU	1324	-3.574	33.554	35.168	1.00	15.29
ATOM	9650	C	LEU	1324	-3.201	28.705	35.398	1.00	18.91
ATOM	9651	O	LEU	1324	-3.477	28.613	34.200	1.00	18.11
ATOM	9652	N	ILE	1325	-2.323	27.903	35.983	1.00	20.42
ATOM	9653	CA	ILE	1325	-1.797	26.760	35.251	1.00	30.99
ATOM	9654	CB	ILE	1325	-0.245	26.708	35.183	1.00	31.18
ATOM	9655	CG2	ILE	1325	0.207	25.443	34.466	1.00	32.38
ATOM	9656	CG1	ILE	1325	0.297	27.898	34.392	1.00	29.93
ATOM	9657	CD1	ILE	1325	1.772	27.797	34.083	1.00	20.87
ATOM	9658	C	ILE	1325	-2.340	25.583	36.044	1.00	35.31
ATOM	9659	O	ILE	1325	-1.692	25.105	36.979	1.00	37.72
ATOM	9660	N	PRO	1326	-3.583	25.154	35.730	1.00	36.65
ATOM	9661	CD	PRO	1326	-4.435	25.632	34.628	1.00	36.20
ATOM	9662	CA	PRO	1326	-4.230	24.042	36.416	1.00	33.07
ATOM	9663	CB	PRO	1326	-5.565	23.928	35.682	1.00	32.41
ATOM	9664	CG	PRO	1326	-5.254	24.430	34.321	1.00	28.97
ATOM	9665	C	PRO	1326	-3.409	22.753	36.377	1.00	38.91
ATOM	9666	O	PRO	1326	-2.877	22.362	35.322	1.00	34.30
ATOM	9667	N	GLY	1327	-3.277	22.146	37.561	1.00	37.94
ATOM	9668	CA	GLY	1327	-2.523	20.913	37.731	1.00	45.18
ATOM	9669	C	GLY	1327	-1.135	21.167	38.296	1.00	47.35
ATOM	9670	O	GLY	1327	-0.383	20.228	38.606	1.00	47.95
ATOM	9671	N	THR	1328	-0.810	22.454	38.429	1.00	46.78
ATOM	9672	CA	THR	1328	0.476	22.917	38.934	1.00	39.94
ATOM	9673	CB	THR	1328	0.844	24.248	38.287	1.00	30.59
ATOM	9674	OG1	THR	1328	0.733	24.110	36.871	1.00	18.78
ATOM	9675	CG2	THR	1328	2.262	24.642	38.632	1.00	32.87
ATOM	9676	C	THR	1328	0.445	23.083	40.444	1.00	42.63
ATOM	9677	O	THR	1328	-0.444	23.749	40.987	1.00	42.94
ATOM	9678	N	THR	1329	1.444	22.494	41.102	1.00	43.49
ATOM	9679	CA	THR	1329	1.577	22.526	42.562	1.00	41.45
ATOM	9680	CB	THR	1329	1.716	21.101	43.114	1.00	40.50
ATOM	9681	OG1	THR	1329	2.234	20.244	42.084	1.00	39.80
ATOM	9682	CG2	THR	1329	0.380	20.582	43.599	1.00	35.85
ATOM	9683	C	THR	1329	2.771	23.343	43.050	1.00	40.37
ATOM	9684	O	THR	1329	3.873	23.224	42.510	1.00	42.93
ATOM	9685	N	VAL	1330	2.561	24.122	44.110	1.00	35.21

ATOM	9686	CA	VAL	1330	3.622	24.963	44.673	1.00	36.05
ATOM	9687	CB	VAL	1330	3.111	26.414	44.952	1.00	32.58
ATOM	9688	CG1	VAL	1330	4.279	27.322	45.310	1.00	29.90
ATOM	9689	CG2	VAL	1330	2.359	26.968	43.755	1.00	23.65
ATOM	9690	C	VAL	1330	4.245	24.413	45.971	1.00	31.30
ATOM	9691	O	VAL	1330	3.558	24.251	46.988	1.00	30.38
ATOM	9692	N	GLY	1331	5.554	24.177	45.944	1.00	26.27
ATOM	9693	CA	GLY	1331	6.236	23.675	47.127	1.00	23.63
ATOM	9694	C	GLY	1331	7.209	24.656	47.763	1.00	15.08
ATOM	9695	O	GLY	1331	8.110	25.149	47.095	1.00	17.87
ATOM	9696	N	VAL	1332	7.053	24.909	49.061	1.00	14.47
ATOM	9697	CA	VAL	1332	7.927	25.836	49.794	1.00	17.16
ATOM	9698	CB	VAL	1332	7.302	26.279	51.135	1.00	14.46
ATOM	9699	CG1	VAL	1332	8.082	27.428	51.717	1.00	2.00
ATOM	9700	CG2	VAL	1332	5.835	26.626	50.969	1.00	21.84
ATOM	9701	C	VAL	1332	9.306	25.274	50.149	1.00	22.83
ATOM	9702	O	VAL	1332	9.460	24.095	50.455	1.00	27.91
ATOM	9703	N	LEU	1333	10.299	26.153	50.119	1.00	29.37
ATOM	9704	CA	LEU	1333	11.681	25.837	50.473	1.00	38.14
ATOM	9705	CB	LEU	1333	12.617	25.970	49.264	1.00	38.50
ATOM	9706	CG	LEU	1333	13.155	24.707	48.579	1.00	42.38
ATOM	9707	CD1	LEU	1333	12.013	23.949	47.961	1.00	41.75
ATOM	9708	CD2	LEU	1333	14.197	25.058	47.504	1.00	34.24
ATOM	9709	C	LEU	1333	12.034	26.910	51.492	1.00	44.99
ATOM	9710	O	LEU	1333	11.688	28.075	51.303	1.00	45.13
ATOM	9711	N	SER	1334	12.707	26.554	52.573	1.00	56.63
ATOM	9712	CA	SER	1334	13.031	27.585	53.547	1.00	67.85
ATOM	9713	CB	SER	1334	11.810	27.882	54.428	1.00	68.21
ATOM	9714	OG	SER	1334	11.158	26.687	54.822	1.00	72.32
ATOM	9715	C	SER	1334	14.271	27.344	54.392	1.00	75.43
ATOM	9716	O	SER	1334	15.313	27.969	54.150	1.00	74.69
ATOM	9717	N	MET	1335	14.156	26.443	55.369	1.00	81.39
ATOM	9718	CA	MET	1335	15.254	26.121	56.286	1.00	86.53
ATOM	9719	CB	MET	1335	14.848	25.012	57.267	1.00	88.65
ATOM	9720	CG	MET	1335	13.576	25.322	58.062	1.00	95.78
ATOM	9721	SD	MET	1335	13.536	27.024	58.721	1.00	100.00
ATOM	9722	CE	MET	1335	11.895	27.073	59.515	1.00	97.38
ATOM	9723	C	MET	1335	16.504	25.722	55.522	1.00	88.87
ATOM	9724	O	MET	1335	16.511	24.687	54.841	1.00	91.67
ATOM	9725	N	ASP	1336	17.527	26.583	55.623	1.00	87.77
ATOM	9726	CA	ASP	1336	18.833	26.429	54.960	1.00	85.39
ATOM	9727	CB	ASP	1336	19.822	25.686	55.878	1.00	92.51
ATOM	9728	CG	ASP	1336	21.282	26.088	55.632	1.00	98.66
ATOM	9729	OD1	ASP	1336	21.607	27.285	55.807	1.00	100.00
ATOM	9730	OD2	ASP	1336	22.108	25.209	55.284	1.00	100.00
ATOM	9731	C	ASP	1336	18.611	25.683	53.646	1.00	78.19
ATOM	9732	O	ASP	1336	18.775	24.461	53.554	1.00	70.71
ATOM	9733	N	SER	1337	18.180	26.417	52.637	1.00	74.91
ATOM	9734	CA	SER	1337	17.864	25.776	51.387	1.00	75.51
ATOM	9735	CB	SER	1337	16.900	26.647	50.591	1.00	81.62
ATOM	9736	OG	SER	1337	15.677	26.774	51.301	1.00	76.85
ATOM	9737	C	SER	1337	18.981	25.202	50.527	1.00	73.59
ATOM	9738	O	SER	1337	20.152	25.596	50.613	1.00	70.86
ATOM	9739	N	SER	1338	18.566	24.152	49.823	1.00	68.56
ATOM	9740	CA	SER	1338	19.298	23.318	48.867	1.00	63.00
ATOM	9741	CB	SER	1338	20.611	22.743	49.435	1.00	60.40
ATOM	9742	OG	SER	1338	21.103	23.430	50.581	1.00	38.33

ATOM	9743	C	SER	1338	18.274	22.187	48.676	1.00	63.73
ATOM	9744	O	SER	1338	18.435	21.317	47.817	1.00	55.99
ATOM	9745	N	ASN	1339	17.258	22.231	49.558	1.00	70.55
ATOM	9746	CA	ASN	1339	16.062	21.360	49.684	1.00	73.39
ATOM	9747	CB	ASN	1339	16.254	19.951	49.071	1.00	67.42
ATOM	9748	CG	ASN	1339	14.982	19.426	48.362	1.00	60.84
ATOM	9749	OD1	ASN	1339	14.402	18.405	48.752	1.00	54.11
ATOM	9750	ND2	ASN	1339	14.563	20.122	47.311	1.00	52.79
ATOM	9751	C	ASN	1339	15.620	21.286	51.179	1.00	73.94
ATOM	9752	O	ASN	1339	16.470	21.325	52.090	1.00	74.77
ATOM	9753	N	VAL	1340	14.296	21.253	51.413	1.00	73.26
ATOM	9754	CA	VAL	1340	13.689	21.183	52.766	1.00	66.17
ATOM	9755	CB	VAL	1340	13.411	22.596	53.354	1.00	63.60
ATOM	9756	CG1	VAL	1340	12.572	23.409	52.392	1.00	56.19
ATOM	9757	CG2	VAL	1340	12.699	22.485	54.709	1.00	56.92
ATOM	9758	C	VAL	1340	12.359	20.416	52.738	1.00	61.76
ATOM	9759	O	VAL	1340	11.532	20.688	51.869	1.00	59.99
ATOM	9760	N	LEU	1341	12.131	19.547	53.739	1.00	65.58
ATOM	9761	CA	LEU	1341	10.927	18.687	53.850	1.00	66.67
ATOM	9762	CB	LEU	1341	9.707	19.446	54.424	1.00	69.27
ATOM	9763	CG	LEU	1341	9.689	19.952	55.886	1.00	73.80
ATOM	9764	CD1	LEU	1341	8.247	20.250	56.321	1.00	69.77
ATOM	9765	CD2	LEU	1341	10.303	18.919	56.831	1.00	73.22
ATOM	9766	C	LEU	1341	10.659	18.176	52.438	1.00	67.97
ATOM	9767	O	LEU	1341	10.014	18.863	51.657	1.00	60.01
ATOM	9768	N	GLN	1342	11.144	16.973	52.126	1.00	68.87
ATOM	9769	CA	GLN	1342	11.071	16.406	50.773	1.00	68.00
ATOM	9770	CB	GLN	1342	11.769	15.050	50.723	1.00	70.15
ATOM	9771	CG	GLN	1342	13.322	15.168	50.767	1.00	74.91
ATOM	9772	CD	GLN	1342	13.886	15.731	52.095	1.00	81.80
ATOM	9773	OE1	GLN	1342	15.074	16.067	52.188	1.00	75.37
ATOM	9774	NE2	GLN	1342	13.048	15.800	53.123	1.00	90.19
ATOM	9775	C	GLN	1342	9.812	16.476	49.903	1.00	61.19
ATOM	9776	O	GLN	1342	9.372	15.492	49.306	1.00	61.31
ATOM	9777	N	LEU	1343	9.465	17.740	49.668	1.00	56.15
ATOM	9778	CA	LEU	1343	8.358	18.307	48.894	1.00	47.14
ATOM	9779	CB	LEU	1343	8.833	19.655	48.364	1.00	45.77
ATOM	9780	CG	LEU	1343	8.290	21.019	48.763	1.00	38.24
ATOM	9781	CD1	LEU	1343	7.971	21.187	50.251	1.00	35.71
ATOM	9782	CD2	LEU	1343	9.359	21.976	48.327	1.00	33.46
ATOM	9783	C	LEU	1343	7.839	17.531	47.709	1.00	41.48
ATOM	9784	O	LEU	1343	6.632	17.422	47.510	1.00	40.95
ATOM	9785	N	ILE	1344	8.771	17.152	46.845	1.00	38.89
ATOM	9786	CA	ILE	1344	8.489	16.405	45.628	1.00	35.45
ATOM	9787	CB	ILE	1344	9.801	15.838	45.060	1.00	35.59
ATOM	9788	CG2	ILE	1344	9.578	15.233	43.690	1.00	24.34
ATOM	9789	CG1	ILE	1344	10.860	16.942	45.018	1.00	37.63
ATOM	9790	CD1	ILE	1344	10.350	18.262	44.465	1.00	39.96
ATOM	9791	C	ILE	1344	7.535	15.263	45.940	1.00	39.02
ATOM	9792	O	ILE	1344	6.524	15.062	45.258	1.00	41.13
ATOM	9793	N	VAL	1345	7.855	14.554	47.015	1.00	40.37
ATOM	9794	CA	VAL	1345	7.062	13.437	47.482	1.00	37.49
ATOM	9795	CB	VAL	1345	7.766	12.750	48.663	1.00	42.50
ATOM	9796	CG1	VAL	1345	7.254	11.343	48.815	1.00	45.59
ATOM	9797	CG2	VAL	1345	9.286	12.736	48.439	1.00	47.87
ATOM	9798	C	VAL	1345	5.692	13.980	47.889	1.00	34.11
ATOM	9799	O	VAL	1345	4.666	13.516	47.404	1.00	36.52

ATOM	9800	N	ASP	1346	5.692	15.019	48.713	1.00	31.44
ATOM	9801	CA	ASP	1346	4.460	15.661	49.161	1.00	33.77
ATOM	9802	CB	ASP	1346	4.801	16.877	50.010	1.00	41.41
ATOM	9803	CG	ASP	1346	5.627	16.530	51.211	1.00	54.30
ATOM	9804	OD1	ASP	1346	6.875	16.458	51.104	1.00	58.04
ATOM	9805	OD2	ASP	1346	5.012	16.336	52.276	1.00	65.29
ATOM	9806	C	ASP	1346	3.591	16.151	48.001	1.00	33.99
ATOM	9807	O	ASP	1346	2.365	16.204	48.111	1.00	34.10
ATOM	9808	N	ALA	1347	4.236	16.572	46.916	1.00	29.88
ATOM	9809	CA	ALA	1347	3.528	17.087	45.752	1.00	26.07
ATOM	9810	CB	ALA	1347	4.405	18.044	44.997	1.00	18.82
ATOM	9811	C	ALA	1347	3.036	15.987	44.828	1.00	27.26
ATOM	9812	O	ALA	1347	1.914	16.047	44.331	1.00	23.52
ATOM	9813	N	TYR	1348	3.881	14.995	44.579	1.00	26.53
ATOM	9814	CA	TYR	1348	3.499	13.887	43.718	1.00	25.27
ATOM	9815	CB	TYR	1348	4.580	12.821	43.720	1.00	36.40
ATOM	9816	CG	TYR	1348	4.231	11.616	42.888	1.00	44.07
ATOM	9817	CD1	TYR	1348	4.079	11.721	41.505	1.00	44.13
ATOM	9818	CE1	TYR	1348	3.791	10.612	40.734	1.00	48.15
ATOM	9819	CD2	TYR	1348	4.079	10.367	43.478	1.00	42.82
ATOM	9820	CE2	TYR	1348	3.793	9.252	42.720	1.00	47.38
ATOM	9821	CZ	TYR	1348	3.654	9.376	41.347	1.00	52.64
ATOM	9822	OH	TYR	1348	3.392	8.258	40.587	1.00	56.52
ATOM	9823	C	TYR	1348	2.203	13.298	44.239	1.00	21.38
ATOM	9824	O	TYR	1348	1.327	12.909	43.468	1.00	20.62
ATOM	9825	N	GLY	1349	2.101	13.223	45.561	1.00	21.50
ATOM	9826	CA	GLY	1349	0.897	12.711	46.179	1.00	24.16
ATOM	9827	C	GLY	1349	-0.214	13.632	45.743	1.00	24.95
ATOM	9828	O	GLY	1349	-1.142	13.214	45.045	1.00	26.08
ATOM	9829	N	LYS	1350	-0.032	14.912	46.063	1.00	28.81
ATOM	9830	CA	LYS	1350	-0.971	15.982	45.729	1.00	26.10
ATOM	9831	CB	LYS	1350	-0.302	17.338	45.972	1.00	19.92
ATOM	9832	CG	LYS	1350	-1.253	18.507	46.167	1.00	23.10
ATOM	9833	CD	LYS	1350	-1.634	18.693	47.635	1.00	34.30
ATOM	9834	CE	LYS	1350	-1.382	20.134	48.132	1.00	36.40
ATOM	9835	NZ	LYS	1350	0.067	20.507	48.261	1.00	26.85
ATOM	9836	C	LYS	1350	-1.381	15.855	44.258	1.00	24.39
ATOM	9837	O	LYS	1350	-2.541	15.590	43.949	1.00	14.97
ATOM	9838	N	ILE	1351	-0.405	15.973	43.365	1.00	24.87
ATOM	9839	CA	ILE	1351	-0.641	15.861	41.932	1.00	30.03
ATOM	9840	CB	ILE	1351	0.703	15.630	41.167	1.00	39.30
ATOM	9841	CG2	ILE	1351	0.432	15.253	39.706	1.00	42.63
ATOM	9842	CG1	ILE	1351	1.633	16.850	41.285	1.00	34.21
ATOM	9843	CD1	ILE	1351	1.357	17.984	40.292	1.00	36.77
ATOM	9844	C	ILE	1351	-1.588	14.696	41.624	1.00	35.70
ATOM	9845	O	ILE	1351	-2.542	14.852	40.867	1.00	40.45
ATOM	9846	N	ARG	1352	-1.358	13.556	42.274	1.00	36.12
ATOM	9847	CA	ARG	1352	-2.160	12.359	42.047	1.00	38.30
ATOM	9848	CB	ARG	1352	-1.238	11.142	42.049	1.00	40.37
ATOM	9849	CG	ARG	1352	-0.102	11.286	41.043	1.00	47.85
ATOM	9850	CD	ARG	1352	-0.059	10.130	40.071	1.00	56.80
ATOM	9851	NE	ARG	1352	0.571	8.943	40.654	1.00	69.94
ATOM	9852	CZ	ARG	1352	0.092	7.699	40.574	1.00	72.81
ATOM	9853	NH1	ARG	1352	-1.050	7.450	39.940	1.00	75.17
ATOM	9854	NH2	ARG	1352	0.789	6.689	41.085	1.00	68.43
ATOM	9855	C	ARG	1352	-3.316	12.184	43.028	1.00	36.74
ATOM	9856	O	ARG	1352	-3.708	11.070	43.358	1.00	37.09

ATOM	9857	N	SER	1353	-3.891	13.303	43.455	1.00	38.60
ATOM	9858	CA	SER	1353	-5.001	13.296	44.401	1.00	38.02
ATOM	9859	CB	SER	1353	-4.870	14.465	45.370	1.00	36.29
ATOM	9860	OG	SER	1353	-3.585	14.486	45.960	1.00	40.52
ATOM	9861	C	SER	1353	-6.327	13.424	43.691	1.00	38.08
ATOM	9862	O	SER	1353	-7.386	13.397	44.315	1.00	38.13
ATOM	9863	N	LYS	1354	-6.263	13.597	42.379	1.00	41.23
ATOM	9864	CA	LYS	1354	-7.466	13.752	41.592	1.00	48.32
ATOM	9865	CB	LYS	1354	-7.809	15.245	41.451	1.00	54.38
ATOM	9866	CG	LYS	1354	-6.637	16.156	41.027	1.00	68.88
ATOM	9867	CD	LYS	1354	-6.082	15.831	39.622	1.00	77.19
ATOM	9868	CE	LYS	1354	-4.747	16.529	39.329	1.00	74.90
ATOM	9869	NZ	LYS	1354	-4.055	15.958	38.132	1.00	64.17
ATOM	9870	C	LYS	1354	-7.358	13.119	40.220	1.00	46.61
ATOM	9871	O	LYS	1354	-6.273	12.743	39.769	1.00	48.83
ATOM	9872	N	VAL	1355	-8.508	12.980	39.575	1.00	46.76
ATOM	9873	CA	VAL	1355	-8.578	12.460	38.220	1.00	55.67
ATOM	9874	CB	VAL	1355	-9.223	11.076	38.145	1.00	55.55
ATOM	9875	CG1	VAL	1355	-8.159	9.999	38.265	1.00	58.28
ATOM	9876	CG2	VAL	1355	-10.268	10.935	39.224	1.00	60.87
ATOM	9877	C	VAL	1355	-9.429	13.457	37.457	1.00	55.19
ATOM	9878	O	VAL	1355	-10.528	13.793	37.878	1.00	59.17
ATOM	9879	N	GLU	1356	-8.891	13.979	36.367	1.00	53.98
ATOM	9880	CA	GLU	1356	-9.618	14.947	35.571	1.00	50.66
ATOM	9881	CB	GLU	1356	-8.862	16.278	35.571	1.00	60.99
ATOM	9882	CG	GLU	1356	-9.537	17.411	34.810	1.00	63.59
ATOM	9883	CD	GLU	1356	-10.394	18.277	35.704	1.00	67.26
ATOM	9884	OE1	GLU	1356	-9.911	18.667	36.789	1.00	68.70
ATOM	9885	OE2	GLU	1356	-11.544	18.575	35.317	1.00	74.51
ATOM	9886	C	GLU	1356	-9.724	14.421	34.155	1.00	47.31
ATOM	9887	O	GLU	1356	-8.711	14.228	33.473	1.00	45.65
ATOM	9888	N	LEU	1357	-10.943	14.153	33.717	1.00	37.43
ATOM	9889	CA	LEU	1357	-11.120	13.664	32.368	1.00	33.20
ATOM	9890	CB	LEU	1357	-12.484	13.027	32.216	1.00	28.71
ATOM	9891	CG	LEU	1357	-12.324	11.603	31.708	1.00	33.08
ATOM	9892	CD1	LEU	1357	-11.294	10.856	32.554	1.00	36.04
ATOM	9893	CD2	LEU	1357	-13.661	10.907	31.740	1.00	39.06
ATOM	9894	C	LEU	1357	-10.969	14.842	31.429	1.00	33.61
ATOM	9895	O	LEU	1357	-11.536	15.909	31.683	1.00	35.42
ATOM	9896	N	GLU	1358	-10.179	14.671	30.371	1.00	30.27
ATOM	9897	CA	GLU	1358	-9.961	15.753	29.416	1.00	29.75
ATOM	9898	CB	GLU	1358	-8.630	16.466	29.684	1.00	40.68
ATOM	9899	CG	GLU	1358	-7.378	15.660	29.340	1.00	51.50
ATOM	9900	CD	GLU	1358	-6.130	16.520	29.233	1.00	57.63
ATOM	9901	OE1	GLU	1358	-5.016	15.989	29.456	1.00	58.30
ATOM	9902	OE2	GLU	1358	-6.267	17.725	28.918	1.00	65.06
ATOM	9903	C	GLU	1358	-10.027	15.317	27.962	1.00	27.31
ATOM	9904	O	GLU	1358	-9.188	14.550	27.491	1.00	25.96
ATOM	9905	N	VAL	1359	-10.995	15.873	27.242	1.00	27.09
ATOM	9906	CA	VAL	1359	-11.207	15.558	25.829	1.00	26.52
ATOM	9907	CB	VAL	1359	-12.645	15.940	25.387	1.00	22.51
ATOM	9908	CG1	VAL	1359	-13.035	15.202	24.104	1.00	23.67
ATOM	9909	CG2	VAL	1359	-13.631	15.652	26.500	1.00	17.33
ATOM	9910	C	VAL	1359	-10.207	16.237	24.877	1.00	23.41
ATOM	9911	O	VAL	1359	-9.844	17.395	25.063	1.00	31.07
ATOM	9912	N	ARG	1360	-9.763	15.495	23.869	1.00	24.17
ATOM	9913	CA	ARG	1360	-8.836	15.992	22.858	1.00	27.85

ATOM	9914	CB	ARG	1360	-7.535	15.174	22.893	1.00	19.81
ATOM	9915	CG	ARG	1360	-6.271	15.943	22.527	1.00	28.01
ATOM	9916	CD	ARG	1360	-5.436	16.345	23.762	1.00	30.68
ATOM	9917	NE	ARG	1360	-4.379	15.379	24.092	1.00	35.74
ATOM	9918	CZ	ARG	1360	-3.556	15.480	25.141	1.00	39.78
ATOM	9919	NH1	ARG	1360	-3.665	16.505	25.976	1.00	49.91
ATOM	9920	NH2	ARG	1360	-2.612	14.567	25.354	1.00	33.40
ATOM	9921	C	ARG	1360	-9.566	15.813	21.510	1.00	31.64
ATOM	9922	O	ARG	1360	-9.952	14.704	21.153	1.00	40.84
ATOM	9923	N	ASP	1361	-9.782	16.917	20.793	1.00	39.51
ATOM	9924	CA	ASP	1361	-10.481	16.953	19.498	1.00	37.37
ATOM	9925	CB	ASP	1361	-10.063	15.800	18.600	1.00	27.88
ATOM	9926	CG	ASP	1361	-8.584	15.825	18.309	1.00	42.22
ATOM	9927	OD1	ASP	1361	-7.792	15.497	19.220	1.00	47.83
ATOM	9928	OD2	ASP	1361	-8.200	16.215	17.189	1.00	50.41
ATOM	9929	C	ASP	1361	-11.998	17.053	19.621	1.00	37.67
ATOM	9930	O	ASP	1361	-12.520	18.127	19.910	1.00	46.31
ATOM	9931	N	LEU	1362	-12.705	15.950	19.421	1.00	36.78
ATOM	9932	CA	LEU	1362	-14.162	15.948	19.523	1.00	37.72
ATOM	9933	CB	LEU	1362	-14.650	16.308	20.935	1.00	32.36
ATOM	9934	CG	LEU	1362	-16.176	16.505	21.063	1.00	31.52
ATOM	9935	CD1	LEU	1362	-16.899	15.194	20.821	1.00	31.58
ATOM	9936	CD2	LEU	1362	-16.568	17.065	22.416	1.00	26.95
ATOM	9937	C	LEU	1362	-14.817	16.891	18.539	1.00	39.59
ATOM	9938	O	LEU	1362	-14.813	18.108	18.729	1.00	39.56
ATOM	9939	N	PRO	1363	-15.413	16.331	17.479	1.00	46.59
ATOM	9940	CD	PRO	1363	-15.317	14.907	17.110	1.00	47.13
ATOM	9941	CA	PRO	1363	-16.101	17.094	16.437	1.00	50.27
ATOM	9942	CB	PRO	1363	-16.612	15.999	15.509	1.00	53.64
ATOM	9943	CG	PRO	1363	-15.532	14.946	15.625	1.00	46.63
ATOM	9944	C	PRO	1363	-17.246	17.927	17.020	1.00	55.20
ATOM	9945	O	PRO	1363	-18.073	17.431	17.787	1.00	58.58
ATOM	9946	N	GLU	1364	-17.252	19.205	16.658	1.00	60.97
ATOM	9947	CA	GLU	1364	-18.238	20.195	17.092	1.00	69.22
ATOM	9948	CB	GLU	1364	-18.279	21.349	16.076	1.00	72.91
ATOM	9949	CG	GLU	1364	-18.758	20.957	14.666	1.00	82.93
ATOM	9950	CD	GLU	1364	-17.998	19.770	14.071	1.00	88.65
ATOM	9951	OE1	GLU	1364	-18.567	18.652	14.018	1.00	85.39
ATOM	9952	OE2	GLU	1364	-16.828	19.954	13.672	1.00	94.34
ATOM	9953	C	GLU	1364	-19.657	19.683	17.328	1.00	67.05
ATOM	9954	O	GLU	1364	-20.287	20.039	18.331	1.00	67.94
ATOM	9955	N	GLU	1365	-20.133	18.836	16.412	1.00	65.53
ATOM	9956	CA	GLU	1365	-21.481	18.267	16.449	1.00	65.27
ATOM	9957	CB	GLU	1365	-21.745	17.451	15.185	1.00	67.18
ATOM	9958	CG	GLU	1365	-22.527	18.220	14.119	1.00	75.83
ATOM	9959	CD	GLU	1365	-23.944	18.605	14.560	1.00	75.28
ATOM	9960	OE1	GLU	1365	-24.501	19.581	14.010	1.00	72.25
ATOM	9961	OE2	GLU	1365	-24.506	17.928	15.448	1.00	72.47
ATOM	9962	C	GLU	1365	-21.912	17.466	17.680	1.00	63.10
ATOM	9963	O	GLU	1365	-23.009	17.687	18.214	1.00	59.58
ATOM	9964	N	LEU	1366	-21.091	16.506	18.098	1.00	61.15
ATOM	9965	CA	LEU	1366	-21.436	15.712	19.270	1.00	55.31
ATOM	9966	CB	LEU	1366	-20.946	14.262	19.159	1.00	53.80
ATOM	9967	CG	LEU	1366	-19.496	13.978	18.777	1.00	54.90
ATOM	9968	CD1	LEU	1366	-19.107	12.578	19.227	1.00	55.28
ATOM	9969	CD2	LEU	1366	-19.325	14.136	17.279	1.00	54.59
ATOM	9970	C	LEU	1366	-20.977	16.355	20.572	1.00	50.55

ATOM	9971	O	LEU	1366	-19.859	16.876	20.681	1.00	44.08
ATOM	9972	N	SER	1367	-21.888	16.348	21.538	1.00	45.03
ATOM	9973	CA	SER	1367	-21.638	16.920	22.846	1.00	44.79
ATOM	9974	CB	SER	1367	-22.736	17.914	23.205	1.00	52.37
ATOM	9975	OG	SER	1367	-22.981	18.798	22.126	1.00	65.70
ATOM	9976	C	SER	1367	-21.595	15.809	23.871	1.00	39.73
ATOM	9977	O	SER	1367	-22.428	14.904	23.864	1.00	35.42
ATOM	9978	N	LEU	1368	-20.622	15.907	24.766	1.00	37.51
ATOM	9979	CA	LEU	1368	-20.425	14.918	25.807	1.00	30.30
ATOM	9980	CB	LEU	1368	-18.953	14.527	25.864	1.00	32.15
ATOM	9981	CG	LEU	1368	-18.430	13.563	24.792	1.00	30.06
ATOM	9982	CD1	LEU	1368	-18.957	13.877	23.397	1.00	25.65
ATOM	9983	CD2	LEU	1368	-16.922	13.606	24.818	1.00	31.48
ATOM	9984	C	LEU	1368	-20.903	15.394	27.169	1.00	29.37
ATOM	9985	O	LEU	1368	-20.611	16.510	27.591	1.00	29.44
ATOM	9986	N	SER	1369	-21.662	14.531	27.835	1.00	30.87
ATOM	9987	CA	SER	1369	-22.208	14.800	29.165	1.00	30.61
ATOM	9988	CB	SER	1369	-23.713	14.508	29.176	1.00	33.68
ATOM	9989	OG	SER	1369	-24.329	14.885	27.950	1.00	36.48
ATOM	9990	C	SER	1369	-21.493	13.827	30.099	1.00	28.82
ATOM	9991	O	SER	1369	-21.039	12.781	29.652	1.00	31.88
ATOM	9992	N	PHE	1370	-21.373	14.160	31.381	1.00	26.77
ATOM	9993	CA	PHE	1370	-20.691	13.268	32.322	1.00	27.28
ATOM	9994	CB	PHE	1370	-19.276	13.750	32.620	1.00	26.93
ATOM	9995	CG	PHE	1370	-18.362	13.781	31.431	1.00	36.75
ATOM	9996	CD1	PHE	1370	-18.448	14.808	30.492	1.00	41.57
ATOM	9997	CD2	PHE	1370	-17.354	12.834	31.294	1.00	38.32
ATOM	9998	CE1	PHE	1370	-17.541	14.897	29.435	1.00	42.76
ATOM	9999	CE2	PHE	1370	-16.441	12.911	30.245	1.00	43.84
ATOM	10000	CZ	PHE	1370	-16.535	13.949	29.313	1.00	43.41
ATOM	10001	C	PHE	1370	-21.387	13.074	33.661	1.00	32.57
ATOM	10002	O	PHE	1370	-22.173	13.905	34.108	1.00	34.24
ATOM	10003	N	ASN	1371	-21.049	11.962	34.300	1.00	34.84
ATOM	10004	CA	ASN	1371	-21.556	11.569	35.611	1.00	41.89
ATOM	10005	CB	ASN	1371	-22.774	10.626	35.494	1.00	47.14
ATOM	10006	CG	ASN	1371	-24.081	11.361	35.195	1.00	52.23
ATOM	10007	OD1	ASN	1371	-24.262	12.499	35.611	1.00	54.82
ATOM	10008	ND2	ASN	1371	-25.002	10.710	34.485	1.00	61.19
ATOM	10009	C	ASN	1371	-20.355	10.793	36.131	1.00	42.21
ATOM	10010	O	ASN	1371	-19.912	9.841	35.492	1.00	52.53
ATOM	10011	N	ALA	1372	-19.777	11.229	37.240	1.00	39.70
ATOM	10012	CA	ALA	1372	-18.611	10.537	37.771	1.00	35.47
ATOM	10013	CB	ALA	1372	-17.432	11.481	37.857	1.00	28.88
ATOM	10014	C	ALA	1372	-18.871	9.927	39.124	1.00	35.94
ATOM	10015	O	ALA	1372	-19.227	10.637	40.062	1.00	40.22
ATOM	10016	N	THR	1373	-18.735	8.605	39.211	1.00	37.31
ATOM	10017	CA	THR	1373	-18.910	7.897	40.484	1.00	39.24
ATOM	10018	CB	THR	1373	-19.744	6.561	40.321	1.00	37.93
ATOM	10019	OG1	THR	1373	-19.032	5.445	40.867	1.00	45.84
ATOM	10020	CG2	THR	1373	-20.121	6.307	38.854	1.00	37.24
ATOM	10021	C	THR	1373	-17.502	7.719	41.106	1.00	34.35
ATOM	10022	O	THR	1373	-16.678	6.914	40.644	1.00	19.83
ATOM	10023	N	CYS	1374	-17.216	8.563	42.099	1.00	34.62
ATOM	10024	CA	CYS	1374	-15.915	8.589	42.754	1.00	34.95
ATOM	10025	C	CYS	1374	-15.838	7.771	44.008	1.00	33.66
ATOM	10026	O	CYS	1374	-14.851	7.075	44.230	1.00	32.40
ATOM	10027	CB	CYS	1374	-15.514	10.028	43.074	1.00	35.99

ATOM	10028	SG	CYS	1374	-15.720	11.201	41.694	1.00	38.35
ATOM	10029	N	LEU	1375	-16.846	7.910	44.862	1.00	36.11
ATOM	10030	CA	LEU	1375	-16.873	7.160	46.106	1.00	36.88
ATOM	10031	CB	LEU	1375	-17.183	8.072	47.287	1.00	30.26
ATOM	10032	CG	LEU	1375	-16.163	8.017	48.422	1.00	29.73
ATOM	10033	CD1	LEU	1375	-16.647	8.852	49.582	1.00	32.74
ATOM	10034	CD2	LEU	1375	-15.939	6.589	48.872	1.00	32.72
ATOM	10035	C	LEU	1375	-17.889	6.032	46.042	1.00	40.93
ATOM	10036	O	LEU	1375	-19.061	6.264	45.776	1.00	41.55
ATOM	10037	N	ASN	1376	-17.400	4.816	46.257	1.00	48.66
ATOM	10038	CA	ASN	1376	-18.190	3.587	46.257	1.00	52.96
ATOM	10039	CB	ASN	1376	-18.127	2.919	47.641	1.00	58.25
ATOM	10040	CG	ASN	1376	-18.403	3.892	48.789	1.00	59.29
ATOM	10041	OD1	ASN	1376	-17.558	4.078	49.667	1.00	58.05
ATOM	10042	ND2	ASN	1376	-19.590	4.501	48.795	1.00	60.25
ATOM	10043	C	ASN	1376	-19.636	3.640	45.782	1.00	52.34
ATOM	10044	O	ASN	1376	-20.555	3.818	46.581	1.00	53.52
ATOM	10045	N	ASN	1377	-19.831	3.509	44.478	1.00	55.73
ATOM	10046	CA	ASN	1377	-21.178	3.492	43.901	1.00	68.21
ATOM	10047	CB	ASN	1377	-21.846	2.139	44.193	1.00	78.51
ATOM	10048	CG	ASN	1377	-20.935	0.956	43.888	1.00	87.82
ATOM	10049	OD1	ASN	1377	-20.446	0.284	44.803	1.00	92.05
ATOM	10050	ND2	ASN	1377	-20.703	0.699	42.602	1.00	90.93
ATOM	10051	C	ASN	1377	-22.132	4.619	44.341	1.00	64.23
ATOM	10052	O	ASN	1377	-23.350	4.444	44.318	1.00	60.10
ATOM	10053	N	GLU	1378	-21.579	5.763	44.739	1.00	67.88
ATOM	10054	CA	GLU	1378	-22.385	6.900	45.179	1.00	68.71
ATOM	10055	CB	GLU	1378	-21.556	7.857	46.044	1.00	78.02
ATOM	10056	CG	GLU	1378	-22.261	9.168	46.430	1.00	88.29
ATOM	10057	CD	GLU	1378	-23.437	8.977	47.383	1.00	93.32
ATOM	10058	OE1	GLU	1378	-24.558	9.417	47.040	1.00	89.76
ATOM	10059	OE2	GLU	1378	-23.236	8.407	48.480	1.00	97.30
ATOM	10060	C	GLU	1378	-22.949	7.657	43.996	1.00	65.53
ATOM	10061	O	GLU	1378	-24.134	7.989	43.979	1.00	68.94
ATOM	10062	N	VAL	1379	-22.086	7.916	43.016	1.00	58.39
ATOM	10063	CA	VAL	1379	-22.406	8.644	41.778	1.00	60.31
ATOM	10064	CB	VAL	1379	-23.444	7.898	40.832	1.00	58.60
ATOM	10065	CG1	VAL	1379	-23.171	6.397	40.800	1.00	59.61
ATOM	10066	CG2	VAL	1379	-24.896	8.201	41.200	1.00	52.09
ATOM	10067	C	VAL	1379	-22.781	10.127	41.925	1.00	60.39
ATOM	10068	O	VAL	1379	-23.751	10.501	42.600	1.00	60.95
ATOM	10069	N	ILE	1380	-21.959	10.967	41.308	1.00	54.70
ATOM	10070	CA	ILE	1380	-22.153	12.408	41.316	1.00	46.73
ATOM	10071	CB	ILE	1380	-20.924	13.136	41.903	1.00	45.55
ATOM	10072	CG2	ILE	1380	-21.037	14.628	41.672	1.00	48.35
ATOM	10073	CG1	ILE	1380	-20.782	12.812	43.393	1.00	49.57
ATOM	10074	CD1	ILE	1380	-22.050	13.070	44.217	1.00	51.84
ATOM	10075	C	ILE	1380	-22.332	12.800	39.864	1.00	44.57
ATOM	10076	O	ILE	1380	-21.414	12.664	39.060	1.00	45.22
ATOM	10077	N	PRO	1381	-23.537	13.251	39.497	1.00	40.08
ATOM	10078	CD	PRO	1381	-24.725	13.441	40.342	1.00	42.83
ATOM	10079	CA	PRO	1381	-23.824	13.652	38.122	1.00	39.74
ATOM	10080	CB	PRO	1381	-25.330	13.895	38.147	1.00	34.87
ATOM	10081	CG	PRO	1381	-25.546	14.400	39.511	1.00	40.06
ATOM	10082	C	PRO	1381	-23.070	14.888	37.673	1.00	37.92
ATOM	10083	O	PRO	1381	-22.325	15.493	38.448	1.00	37.86
ATOM	10084	N	GLY	1382	-23.234	15.204	36.391	1.00	39.67

ATOM	10085	CA	GLY	1382	-22.602	16.362	35.784	1.00	38.01
ATOM	10086	C	GLY	1382	-21.199	16.716	36.232	1.00	29.99
ATOM	10087	O	GLY	1382	-20.939	17.858	36.601	1.00	38.01
ATOM	10088	N	LEU	1383	-20.289	15.752	36.198	1.00	23.60
ATOM	10089	CA	LEU	1383	-18.917	16.009	36.605	1.00	25.19
ATOM	10090	CB	LEU	1383	-18.804	15.913	38.128	1.00	31.85
ATOM	10091	CG	LEU	1383	-17.538	16.453	38.802	1.00	43.57
ATOM	10092	CD1	LEU	1383	-17.054	17.763	38.148	1.00	40.80
ATOM	10093	CD2	LEU	1383	-17.836	16.651	40.288	1.00	42.89
ATOM	10094	C	LEU	1383	-17.966	15.039	35.906	1.00	17.06
ATOM	10095	O	LEU	1383	-18.400	13.989	35.428	1.00	22.00
ATOM	10096	N	LYS	1384	-16.693	15.404	35.798	1.00	5.34
ATOM	10097	CA	LYS	1384	-15.737	14.536	35.135	1.00	9.26
ATOM	10098	CB	LYS	1384	-15.639	14.877	33.660	1.00	2.00
ATOM	10099	CG	LYS	1384	-15.100	16.234	33.345	1.00	11.56
ATOM	10100	CD	LYS	1384	-15.044	16.411	31.839	1.00	23.12
ATOM	10101	CE	LYS	1384	-14.350	17.689	31.462	1.00	23.74
ATOM	10102	NZ	LYS	1384	-14.998	18.834	32.154	1.00	39.64
ATOM	10103	C	LYS	1384	-14.372	14.572	35.789	1.00	20.97
ATOM	10104	O	LYS	1384	-13.326	14.520	35.115	1.00	21.13
ATOM	10105	N	SER	1385	-14.401	14.615	37.119	1.00	22.83
ATOM	10106	CA	SER	1385	-13.193	14.654	37.923	1.00	24.90
ATOM	10107	CB	SER	1385	-12.582	16.063	37.878	1.00	30.14
ATOM	10108	OG	SER	1385	-13.582	17.071	37.979	1.00	33.62
ATOM	10109	C	SER	1385	-13.475	14.226	39.363	1.00	27.89
ATOM	10110	O	SER	1385	-14.567	14.474	39.873	1.00	26.54
ATOM	10111	N	CYS	1386	-12.503	13.554	39.989	1.00	27.84
ATOM	10112	CA	CYS	1386	-12.617	13.086	41.377	1.00	27.24
ATOM	10113	C	CYS	1386	-11.376	13.469	42.162	1.00	27.03
ATOM	10114	O	CYS	1386	-10.262	13.196	41.714	1.00	22.40
ATOM	10115	CB	CYS	1386	-12.739	11.565	41.430	1.00	32.51
ATOM	10116	SG	CYS	1386	-14.119	10.860	40.489	1.00	35.26
ATOM	10117	N	MET	1387	-11.570	14.040	43.352	1.00	25.79
ATOM	10118	CA	MET	1387	-10.453	14.454	44.198	1.00	33.85
ATOM	10119	CB	MET	1387	-10.581	15.930	44.576	1.00	41.23
ATOM	10120	CG	MET	1387	-11.737	16.230	45.523	1.00	51.65
ATOM	10121	SD	MET	1387	-11.310	17.388	46.858	1.00	64.69
ATOM	10122	CE	MET	1387	-11.411	16.306	48.325	1.00	56.60
ATOM	10123	C	MET	1387	-10.344	13.626	45.474	1.00	35.20
ATOM	10124	O	MET	1387	-11.208	12.798	45.766	1.00	40.57
ATOM	10125	N	GLY	1388	-9.284	13.878	46.242	1.00	35.72
ATOM	10126	CA	GLY	1388	-9.063	13.168	47.492	1.00	32.81
ATOM	10127	C	GLY	1388	-8.623	11.728	47.314	1.00	30.70
ATOM	10128	O	GLY	1388	-8.673	10.922	48.242	1.00	32.62
ATOM	10129	N	LEU	1389	-8.165	11.398	46.118	1.00	27.08
ATOM	10130	CA	LEU	1389	-7.737	10.041	45.850	1.00	33.27
ATOM	10131	CB	LEU	1389	-7.873	9.725	44.358	1.00	21.98
ATOM	10132	CG	LEU	1389	-9.075	10.206	43.543	1.00	14.02
ATOM	10133	CD1	LEU	1389	-9.098	9.454	42.226	1.00	7.89
ATOM	10134	CD2	LEU	1389	-10.379	9.990	44.267	1.00	13.78
ATOM	10135	C	LEU	1389	-6.300	9.755	46.284	1.00	38.66
ATOM	10136	O	LEU	1389	-5.395	10.574	46.088	1.00	40.09
ATOM	10137	N	LYS	1390	-6.103	8.597	46.908	1.00	41.46
ATOM	10138	CA	LYS	1390	-4.765	8.175	47.299	1.00	45.90
ATOM	10139	CB	LYS	1390	-4.798	7.287	48.551	1.00	52.09
ATOM	10140	CG	LYS	1390	-5.318	5.864	48.328	1.00	60.92
ATOM	10141	CD	LYS	1390	-5.159	5.005	49.584	1.00	67.78

ATOM	10142	CE	LYS	1390	-5.688	3.587	49.386	1.00	71.77
ATOM	10143	NZ	LYS	1390	-4.979	2.847	48.300	1.00	73.61
ATOM	10144	C	LYS	1390	-4.300	7.362	46.097	1.00	44.74
ATOM	10145	O	LYS	1390	-5.116	6.959	45.270	1.00	43.82
ATOM	10146	N	ILE	1391	-3.002	7.130	45.978	1.00	46.62
ATOM	10147	CA	ILE	1391	-2.507	6.354	44.851	1.00	47.81
ATOM	10148	CB	ILE	1391	-0.987	6.516	44.685	1.00	49.93
ATOM	10149	CG2	ILE	1391	-0.436	5.449	43.738	1.00	54.60
ATOM	10150	CG1	ILE	1391	-0.695	7.934	44.170	1.00	49.60
ATOM	10151	CD1	ILE	1391	0.767	8.312	44.114	1.00	44.96
ATOM	10152	C	ILE	1391	-2.912	4.894	45.003	1.00	46.02
ATOM	10153	O	ILE	1391	-2.615	4.253	46.010	1.00	46.25
ATOM	10154	N	GLY	1392	-3.640	4.397	44.010	1.00	46.80
ATOM	10155	CA	GLY	1392	-4.113	3.028	44.043	1.00	51.39
ATOM	10156	C	GLY	1392	-5.615	2.959	43.818	1.00	53.31
ATOM	10157	O	GLY	1392	-6.122	1.965	43.283	1.00	58.48
ATOM	10158	N	ASP	1393	-6.325	4.014	44.227	1.00	49.42
ATOM	10159	CA	ASP	1393	-7.776	4.095	44.071	1.00	47.03
ATOM	10160	CB	ASP	1393	-8.324	5.378	44.720	1.00	53.31
ATOM	10161	CG	ASP	1393	-8.248	5.359	46.246	1.00	60.44
ATOM	10162	OD1	ASP	1393	-7.703	4.388	46.820	1.00	64.53
ATOM	10163	OD2	ASP	1393	-8.738	6.327	46.875	1.00	60.82
ATOM	10164	C	ASP	1393	-8.174	4.076	42.598	1.00	43.41
ATOM	10165	O	ASP	1393	-7.365	4.401	41.724	1.00	45.23
ATOM	10166	N	THR	1394	-9.428	3.713	42.337	1.00	38.55
ATOM	10167	CA	THR	1394	-9.964	3.643	40.977	1.00	31.61
ATOM	10168	CB	THR	1394	-10.187	2.184	40.559	1.00	33.46
ATOM	10169	OG1	THR	1394	-8.953	1.467	40.667	1.00	43.19
ATOM	10170	CG2	THR	1394	-10.713	2.096	39.132	1.00	25.22
ATOM	10171	C	THR	1394	-11.306	4.364	40.899	1.00	29.26
ATOM	10172	O	THR	1394	-12.060	4.385	41.870	1.00	25.26
ATOM	10173	N	VAL	1395	-11.585	4.972	39.746	1.00	30.63
ATOM	10174	CA	VAL	1395	-12.848	5.683	39.514	1.00	24.50
ATOM	10175	CB	VAL	1395	-12.710	7.201	39.653	1.00	21.75
ATOM	10176	CG1	VAL	1395	-12.752	7.605	41.106	1.00	24.52
ATOM	10177	CG2	VAL	1395	-11.422	7.660	39.005	1.00	26.48
ATOM	10178	C	VAL	1395	-13.425	5.407	38.138	1.00	25.06
ATOM	10179	O	VAL	1395	-12.758	4.862	37.248	1.00	24.51
ATOM	10180	N	SER	1396	-14.669	5.823	37.959	1.00	19.54
ATOM	10181	CA	SER	1396	-15.337	5.621	36.695	1.00	26.81
ATOM	10182	CB	SER	1396	-16.092	4.303	36.718	1.00	25.41
ATOM	10183	OG	SER	1396	-16.845	4.191	37.914	1.00	23.05
ATOM	10184	C	SER	1396	-16.304	6.754	36.432	1.00	34.89
ATOM	10185	O	SER	1396	-16.953	7.268	37.347	1.00	40.67
ATOM	10186	N	PHE	1397	-16.367	7.164	35.175	1.00	30.58
ATOM	10187	CA	PHE	1397	-17.263	8.227	34.768	1.00	28.49
ATOM	10188	CB	PHE	1397	-16.498	9.482	34.336	1.00	28.93
ATOM	10189	CG	PHE	1397	-15.114	9.595	34.910	1.00	22.13
ATOM	10190	CD1	PHE	1397	-14.075	8.814	34.408	1.00	21.01
ATOM	10191	CD2	PHE	1397	-14.847	10.487	35.937	1.00	17.82
ATOM	10192	CE1	PHE	1397	-12.794	8.916	34.916	1.00	21.50
ATOM	10193	CE2	PHE	1397	-13.565	10.599	36.457	1.00	22.34
ATOM	10194	CZ	PHE	1397	-12.532	9.810	35.947	1.00	22.60
ATOM	10195	C	PHE	1397	-18.013	7.673	33.574	1.00	30.53
ATOM	10196	O	PHE	1397	-17.489	6.830	32.839	1.00	25.85
ATOM	10197	N	SER	1398	-19.249	8.129	33.400	1.00	33.64
ATOM	10198	CA	SER	1398	-20.074	7.685	32.288	1.00	31.11

ATOM	10199	CB	SER	1398	-21.420	7.122	32.783	1.00	36.12
ATOM	10200	OG	SER	1398	-22.095	8.010	33.659	1.00	38.80
ATOM	10201	C	SER	1398	-20.283	8.811	31.291	1.00	25.74
ATOM	10202	O	SER	1398	-20.934	9.808	31.588	1.00	26.51
ATOM	10203	N	ILE	1399	-19.692	8.649	30.113	1.00	21.60
ATOM	10204	CA	ILE	1399	-19.803	9.628	29.045	1.00	21.65
ATOM	10205	CB	ILE	1399	-18.565	9.597	28.114	1.00	22.82
ATOM	10206	CG2	ILE	1399	-18.418	10.911	27.376	1.00	22.71
ATOM	10207	CG1	ILE	1399	-17.290	9.370	28.922	1.00	29.47
ATOM	10208	CD1	ILE	1399	-16.782	7.934	28.877	1.00	34.31
ATOM	10209	C	ILE	1399	-21.048	9.354	28.199	1.00	23.46
ATOM	10210	O	ILE	1399	-21.715	8.330	28.361	1.00	25.27
ATOM	10211	N	GLU	1400	-21.354	10.295	27.313	1.00	28.30
ATOM	10212	CA	GLU	1400	-22.487	10.208	26.403	1.00	29.67
ATOM	10213	CB	GLU	1400	-23.800	10.582	27.091	1.00	30.63
ATOM	10214	CG	GLU	1400	-24.885	11.049	26.113	1.00	29.79
ATOM	10215	CD	GLU	1400	-26.196	11.417	26.788	1.00	36.41
ATOM	10216	OE1	GLU	1400	-27.097	11.950	26.100	1.00	30.13
ATOM	10217	OE2	GLU	1400	-26.341	11.158	28.003	1.00	45.81
ATOM	10218	C	GLU	1400	-22.243	11.193	25.293	1.00	31.62
ATOM	10219	O	GLU	1400	-22.249	12.403	25.520	1.00	34.85
ATOM	10220	N	ALA	1401	-21.971	10.668	24.109	1.00	32.51
ATOM	10221	CA	ALA	1401	-21.752	11.504	22.944	1.00	35.69
ATOM	10222	CB	ALA	1401	-20.841	10.810	21.966	1.00	33.68
ATOM	10223	C	ALA	1401	-23.131	11.727	22.336	1.00	41.24
ATOM	10224	O	ALA	1401	-24.027	10.898	22.505	1.00	42.92
ATOM	10225	N	LYS	1402	-23.306	12.839	21.631	1.00	44.66
ATOM	10226	CA	LYS	1402	-24.602	13.144	21.041	1.00	44.50
ATOM	10227	CB	LYS	1402	-25.546	13.637	22.144	1.00	40.51
ATOM	10228	CG	LYS	1402	-26.984	13.869	21.729	1.00	39.12
ATOM	10229	CD	LYS	1402	-27.831	14.214	22.954	1.00	41.56
ATOM	10230	CE	LYS	1402	-29.299	14.370	22.604	1.00	37.69
ATOM	10231	NZ	LYS	1402	-29.862	13.123	22.021	1.00	41.83
ATOM	10232	C	LYS	1402	-24.506	14.182	19.932	1.00	43.30
ATOM	10233	O	LYS	1402	-24.128	15.326	20.171	1.00	43.72
ATOM	10234	N	VAL	1403	-24.831	13.769	18.712	1.00	43.36
ATOM	10235	CA	VAL	1403	-24.807	14.678	17.577	1.00	44.28
ATOM	10236	CB	VAL	1403	-24.693	13.941	16.244	1.00	41.67
ATOM	10237	CG1	VAL	1403	-23.285	13.425	16.053	1.00	41.36
ATOM	10238	CG2	VAL	1403	-25.724	12.819	16.178	1.00	39.03
ATOM	10239	C	VAL	1403	-26.096	15.461	17.543	1.00	47.48
ATOM	10240	O	VAL	1403	-26.936	15.335	18.429	1.00	49.68
ATOM	10241	N	ARG	1404	-26.255	16.240	16.483	1.00	51.28
ATOM	10242	CA	ARG	1404	-27.435	17.060	16.275	1.00	55.71
ATOM	10243	CB	ARG	1404	-27.242	18.424	16.944	1.00	60.61
ATOM	10244	CG	ARG	1404	-28.435	19.352	16.846	1.00	66.37
ATOM	10245	CD	ARG	1404	-28.138	20.674	17.518	1.00	68.94
ATOM	10246	NE	ARG	1404	-26.998	21.348	16.905	1.00	72.12
ATOM	10247	CZ	ARG	1404	-26.573	22.560	17.247	1.00	77.85
ATOM	10248	NH1	ARG	1404	-27.193	23.240	18.208	1.00	78.37
ATOM	10249	NH2	ARG	1404	-25.529	23.099	16.627	1.00	81.12
ATOM	10250	C	ARG	1404	-27.540	17.207	14.765	1.00	55.41
ATOM	10251	O	ARG	1404	-27.002	18.152	14.186	1.00	58.04
ATOM	10252	N	GLY	1405	-28.222	16.256	14.129	1.00	51.43
ATOM	10253	CA	GLY	1405	-28.345	16.281	12.686	1.00	49.34
ATOM	10254	C	GLY	1405	-26.932	16.005	12.245	1.00	49.02
ATOM	10255	O	GLY	1405	-26.099	16.905	12.230	1.00	46.82

ATOM	10256	N	CYS	1406	-26.638	14.749	11.952	1.00	55.26
ATOM	10257	CA	CYS	1406	-25.285	14.370	11.560	1.00	59.72
ATOM	10258	C	CYS	1406	-24.693	14.995	10.291	1.00	55.22
ATOM	10259	O	CYS	1406	-25.299	14.973	9.217	1.00	50.09
ATOM	10260	CB	CYS	1406	-25.126	12.842	11.566	1.00	66.22
ATOM	10261	SG	CYS	1406	-26.393	11.882	10.679	1.00	70.98
ATOM	10262	N	PRO	1407	-23.484	15.567	10.417	1.00	54.98
ATOM	10263	CD	PRO	1407	-22.716	15.567	11.672	1.00	54.03
ATOM	10264	CA	PRO	1407	-22.715	16.228	9.363	1.00	62.08
ATOM	10265	CB	PRO	1407	-21.509	16.767	10.128	1.00	60.90
ATOM	10266	CG	PRO	1407	-21.307	15.743	11.174	1.00	52.88
ATOM	10267	C	PRO	1407	-22.284	15.265	8.271	1.00	67.98
ATOM	10268	O	PRO	1407	-23.099	14.509	7.749	1.00	69.35
ATOM	10269	N	GLN	1408	-21.000	15.298	7.922	1.00	76.15
ATOM	10270	CA	GLN	1408	-20.495	14.415	6.889	1.00	78.17
ATOM	10271	CB	GLN	1408	-20.249	15.169	5.588	1.00	81.16
ATOM	10272	CG	GLN	1408	-21.549	15.445	4.840	1.00	89.18
ATOM	10273	CD	GLN	1408	-22.480	14.228	4.805	1.00	91.26
ATOM	10274	OE1	GLN	1408	-23.681	14.349	5.050	1.00	94.34
ATOM	10275	NE2	GLN	1408	-21.923	13.053	4.515	1.00	90.65
ATOM	10276	C	GLN	1408	-19.326	13.525	7.245	1.00	79.65
ATOM	10277	O	GLN	1408	-18.365	13.934	7.901	1.00	78.79
ATOM	10278	N	GLU	1409	-19.445	12.295	6.761	1.00	81.79
ATOM	10279	CA	GLU	1409	-18.497	11.219	6.974	1.00	80.53
ATOM	10280	CB	GLU	1409	-18.753	10.093	5.973	1.00	86.37
ATOM	10281	CG	GLU	1409	-20.161	9.537	6.044	1.00	94.64
ATOM	10282	CD	GLU	1409	-20.618	9.315	7.475	1.00	100.00
ATOM	10283	OE1	GLU	1409	-21.393	10.158	7.983	1.00	100.00
ATOM	10284	OE2	GLU	1409	-20.188	8.312	8.090	1.00	100.00
ATOM	10285	C	GLU	1409	-17.024	11.534	6.999	1.00	77.20
ATOM	10286	O	GLU	1409	-16.532	12.423	6.306	1.00	76.92
ATOM	10287	N	LYS	1410	-16.343	10.744	7.816	1.00	75.80
ATOM	10288	CA	LYS	1410	-14.910	10.795	8.041	1.00	75.54
ATOM	10289	CB	LYS	1410	-14.398	12.231	8.229	1.00	80.98
ATOM	10290	CG	LYS	1410	-12.873	12.334	8.411	1.00	83.28
ATOM	10291	CD	LYS	1410	-12.416	13.757	8.739	1.00	87.24
ATOM	10292	CE	LYS	1410	-12.718	14.731	7.605	1.00	87.59
ATOM	10293	NZ	LYS	1410	-12.178	16.092	7.883	1.00	88.13
ATOM	10294	C	LYS	1410	-14.695	10.010	9.320	1.00	71.63
ATOM	10295	O	LYS	1410	-15.591	9.920	10.170	1.00	61.30
ATOM	10296	N	GLU	1411	-13.501	9.440	9.438	1.00	75.16
ATOM	10297	CA	GLU	1411	-13.103	8.651	10.597	1.00	77.68
ATOM	10298	CB	GLU	1411	-11.583	8.417	10.556	1.00	86.11
ATOM	10299	CG	GLU	1411	-10.995	7.682	11.764	1.00	94.03
ATOM	10300	CD	GLU	1411	-11.476	6.245	11.889	1.00	97.75
ATOM	10301	OE1	GLU	1411	-12.541	6.028	12.512	1.00	97.36
ATOM	10302	OE2	GLU	1411	-10.784	5.335	11.373	1.00	98.33
ATOM	10303	C	GLU	1411	-13.489	9.375	11.880	1.00	73.06
ATOM	10304	O	GLU	1411	-14.136	8.795	12.756	1.00	74.24
ATOM	10305	N	LYS	1412	-13.130	10.656	11.945	1.00	63.01
ATOM	10306	CA	LYS	1412	-13.407	11.501	13.097	1.00	50.48
ATOM	10307	CB	LYS	1412	-14.798	12.133	12.987	1.00	51.07
ATOM	10308	CG	LYS	1412	-14.861	13.342	12.047	1.00	54.78
ATOM	10309	CD	LYS	1412	-16.309	13.797	11.823	1.00	57.94
ATOM	10310	CE	LYS	1412	-16.419	14.949	10.821	1.00	52.77
ATOM	10311	NZ	LYS	1412	-17.835	15.211	10.414	1.00	43.51
ATOM	10312	C	LYS	1412	-13.229	10.759	14.419	1.00	43.09

ATOM	10313	O	LYS	1412	-14.196	10.336	15.057	1.00	41.62
ATOM	10314	N	SER	1413	-11.973	10.499	14.754	1.00	32.75
ATOM	10315	CA	SER	1413	-11.644	9.832	16.003	1.00	27.94
ATOM	10316	CB	SER	1413	-10.412	8.938	15.831	1.00	33.73
ATOM	10317	OG	SER	1413	-10.408	8.286	14.575	1.00	41.89
ATOM	10318	C	SER	1413	-11.300	10.965	16.960	1.00	20.95
ATOM	10319	O	SER	1413	-11.032	12.084	16.529	1.00	27.35
ATOM	10320	N	PHE	1414	-11.341	10.699	18.255	1.00	7.30
ATOM	10321	CA	PHE	1414	-10.983	11.712	19.223	1.00	2.00
ATOM	10322	CB	PHE	1414	-12.060	12.790	19.355	1.00	2.50
ATOM	10323	CG	PHE	1414	-13.308	12.355	20.064	1.00	2.57
ATOM	10324	CD1	PHE	1414	-13.434	12.527	21.439	1.00	2.00
ATOM	10325	CD2	PHE	1414	-14.383	11.811	19.347	1.00	6.74
ATOM	10326	CE1	PHE	1414	-14.617	12.158	22.092	1.00	17.72
ATOM	10327	CE2	PHE	1414	-15.574	11.439	19.987	1.00	6.97
ATOM	10328	CZ	PHE	1414	-15.695	11.611	21.361	1.00	11.53
ATOM	10329	C	PHE	1414	-10.739	11.021	20.523	1.00	7.45
ATOM	10330	O	PHE	1414	-11.248	9.925	20.741	1.00	15.33
ATOM	10331	N	THR	1415	-9.928	11.622	21.378	1.00	2.00
ATOM	10332	CA	THR	1415	-9.650	10.987	22.646	1.00	5.04
ATOM	10333	CB	THR	1415	-8.149	10.877	22.923	1.00	2.87
ATOM	10334	OG1	THR	1415	-7.787	11.779	23.975	1.00	3.06
ATOM	10335	CG2	THR	1415	-7.341	11.162	21.660	1.00	3.86
ATOM	10336	C	THR	1415	-10.348	11.616	23.842	1.00	10.62
ATOM	10337	O	THR	1415	-11.053	12.614	23.718	1.00	17.15
ATOM	10338	N	ILE	1416	-10.219	10.925	24.970	1.00	14.94
ATOM	10339	CA	ILE	1416	-10.768	11.301	26.268	1.00	15.51
ATOM	10340	CB	ILE	1416	-12.118	10.631	26.565	1.00	8.93
ATOM	10341	CG2	ILE	1416	-12.579	11.019	27.956	1.00	2.00
ATOM	10342	CG1	ILE	1416	-13.156	11.002	25.510	1.00	3.89
ATOM	10343	CD1	ILE	1416	-14.517	10.419	25.784	1.00	7.03
ATOM	10344	C	ILE	1416	-9.756	10.650	27.181	1.00	17.21
ATOM	10345	O	ILE	1416	-9.469	9.466	27.046	1.00	23.62
ATOM	10346	N	LYS	1417	-9.221	11.401	28.124	1.00	20.94
ATOM	10347	CA	LYS	1417	-8.217	10.816	28.979	1.00	21.44
ATOM	10348	CB	LYS	1417	-6.904	10.718	28.203	1.00	25.01
ATOM	10349	CG	LYS	1417	-6.461	12.042	27.608	1.00	22.43
ATOM	10350	CD	LYS	1417	-5.065	12.423	28.053	1.00	26.58
ATOM	10351	CE	LYS	1417	-4.013	11.580	27.370	1.00	25.01
ATOM	10352	NZ	LYS	1417	-2.676	12.117	27.710	1.00	37.05
ATOM	10353	C	LYS	1417	-7.966	11.576	30.258	1.00	20.23
ATOM	10354	O	LYS	1417	-8.348	12.734	30.405	1.00	15.76
ATOM	10355	N	PRO	1418	-7.399	10.884	31.244	1.00	24.00
ATOM	10356	CD	PRO	1418	-7.144	9.437	31.302	1.00	26.96
ATOM	10357	CA	PRO	1418	-7.091	11.518	32.514	1.00	26.06
ATOM	10358	CB	PRO	1418	-6.803	10.328	33.420	1.00	25.67
ATOM	10359	CG	PRO	1418	-6.213	9.332	32.473	1.00	28.51
ATOM	10360	C	PRO	1418	-5.840	12.352	32.253	1.00	28.95
ATOM	10361	O	PRO	1418	-4.965	11.973	31.458	1.00	23.75
ATOM	10362	N	VAL	1419	-5.807	13.527	32.859	1.00	29.24
ATOM	10363	CA	VAL	1419	-4.682	14.423	32.704	1.00	29.30
ATOM	10364	CB	VAL	1419	-5.018	15.807	33.279	1.00	31.12
ATOM	10365	CG1	VAL	1419	-6.188	16.407	32.527	1.00	26.11
ATOM	10366	CG2	VAL	1419	-5.379	15.692	34.756	1.00	44.42
ATOM	10367	C	VAL	1419	-3.458	13.835	33.400	1.00	27.06
ATOM	10368	O	VAL	1419	-3.559	13.194	34.446	1.00	22.17
ATOM	10369	N	GLY	1420	-2.300	14.022	32.791	1.00	31.25

ATOM	10370	CA	GLY	1420	-1.084	13.492	33.376	1.00	37.60
ATOM	10371	C	GLY	1420	-0.790	12.071	32.933	1.00	37.41
ATOM	10372	O	GLY	1420	0.371	11.637	32.932	1.00	41.90
ATOM	10373	N	PHE	1421	-1.833	11.355	32.519	1.00	34.89
ATOM	10374	CA	PHE	1421	-1.683	9.975	32.077	1.00	25.65
ATOM	10375	CB	PHE	1421	-2.825	9.112	32.625	1.00	31.37
ATOM	10376	CG	PHE	1421	-2.794	8.937	34.126	1.00	35.12
ATOM	10377	CD1	PHE	1421	-1.583	8.994	34.830	1.00	32.28
ATOM	10378	CD2	PHE	1421	-3.978	8.731	34.838	1.00	30.77
ATOM	10379	CE1	PHE	1421	-1.549	8.856	36.213	1.00	27.94
ATOM	10380	CE2	PHE	1421	-3.960	8.591	36.222	1.00	34.98
ATOM	10381	CZ	PHE	1421	-2.742	8.656	36.913	1.00	35.37
ATOM	10382	C	PHE	1421	-1.593	9.815	30.563	1.00	16.68
ATOM	10383	O	PHE	1421	-2.201	10.571	29.805	1.00	15.88
ATOM	10384	N	LYS	1422	-0.801	8.834	30.146	1.00	13.35
ATOM	10385	CA	LYS	1422	-0.609	8.500	28.740	1.00	15.95
ATOM	10386	CB	LYS	1422	0.611	7.581	28.601	1.00	14.21
ATOM	10387	CG	LYS	1422	0.941	7.183	27.170	1.00	31.15
ATOM	10388	CD	LYS	1422	2.065	6.158	27.115	1.00	42.45
ATOM	10389	CE	LYS	1422	2.399	5.762	25.672	1.00	47.81
ATOM	10390	NZ	LYS	1422	3.554	4.804	25.590	1.00	52.54
ATOM	10391	C	LYS	1422	-1.872	7.770	28.258	1.00	21.37
ATOM	10392	O	LYS	1422	-2.362	7.993	27.143	1.00	23.54
ATOM	10393	N	ASP	1423	-2.390	6.907	29.134	1.00	26.98
ATOM	10394	CA	ASP	1423	-3.588	6.112	28.891	1.00	25.28
ATOM	10395	CB	ASP	1423	-3.936	5.287	30.130	1.00	31.08
ATOM	10396	CG	ASP	1423	-2.848	4.293	30.485	1.00	38.31
ATOM	10397	OD1	ASP	1423	-2.543	3.425	29.628	1.00	41.28
ATOM	10398	OD2	ASP	1423	-2.290	4.392	31.607	1.00	37.83
ATOM	10399	C	ASP	1423	-4.771	6.966	28.484	1.00	21.65
ATOM	10400	O	ASP	1423	-5.102	7.966	29.134	1.00	5.43
ATOM	10401	N	SER	1424	-5.420	6.528	27.413	1.00	27.31
ATOM	10402	CA	SER	1424	-6.556	7.238	26.858	1.00	32.21
ATOM	10403	CB	SER	1424	-6.062	8.308	25.879	1.00	36.03
ATOM	10404	OG	SER	1424	-5.228	7.736	24.877	1.00	40.45
ATOM	10405	C	SER	1424	-7.514	6.324	26.118	1.00	28.59
ATOM	10406	O	SER	1424	-7.109	5.329	25.513	1.00	34.79
ATOM	10407	N	LEU	1425	-8.785	6.692	26.167	1.00	22.52
ATOM	10408	CA	LEU	1425	-9.843	5.976	25.479	1.00	18.84
ATOM	10409	CB	LEU	1425	-11.135	5.999	26.308	1.00	20.79
ATOM	10410	CG	LEU	1425	-12.427	5.672	25.551	1.00	24.93
ATOM	10411	CD1	LEU	1425	-12.336	4.255	24.980	1.00	24.47
ATOM	10412	CD2	LEU	1425	-13.653	5.845	26.456	1.00	23.05
ATOM	10413	C	LEU	1425	-10.070	6.709	24.161	1.00	17.54
ATOM	10414	O	LEU	1425	-10.533	7.851	24.152	1.00	10.38
ATOM	10415	N	ILE	1426	-9.694	6.078	23.051	1.00	17.73
ATOM	10416	CA	ILE	1426	-9.898	6.686	21.740	1.00	19.73
ATOM	10417	CB	ILE	1426	-8.837	6.244	20.717	1.00	18.10
ATOM	10418	CG2	ILE	1426	-9.244	6.682	19.310	1.00	18.14
ATOM	10419	CG1	ILE	1426	-7.465	6.798	21.100	1.00	19.57
ATOM	10420	CD1	ILE	1426	-6.856	6.125	22.316	1.00	29.14
ATOM	10421	C	ILE	1426	-11.260	6.260	21.223	1.00	20.36
ATOM	10422	O	ILE	1426	-11.534	5.069	21.106	1.00	27.88
ATOM	10423	N	VAL	1427	-12.105	7.232	20.908	1.00	9.54
ATOM	10424	CA	VAL	1427	-13.432	6.944	20.404	1.00	2.00
ATOM	10425	CB	VAL	1427	-14.471	7.712	21.210	1.00	5.95
ATOM	10426	CG1	VAL	1427	-15.871	7.356	20.745	1.00	9.43

ATOM	10427	CG2	VAL	1427	-14.295	7.422	22.681	1.00	7.50
ATOM	10428	C	VAL	1427	-13.541	7.332	18.930	1.00	11.49
ATOM	10429	O	VAL	1427	-13.512	8.511	18.598	1.00	17.62
ATOM	10430	N	GLN	1428	-13.627	6.337	18.048	1.00	14.03
ATOM	10431	CA	GLN	1428	-13.757	6.586	16.609	1.00	16.85
ATOM	10432	CB	GLN	1428	-13.262	5.370	15.817	1.00	11.41
ATOM	10433	CG	GLN	1428	-11.941	4.774	16.305	1.00	19.04
ATOM	10434	CD	GLN	1428	-11.579	3.442	15.620	1.00	23.07
ATOM	10435	OE1	GLN	1428	-10.835	2.625	16.172	1.00	20.22
ATOM	10436	NE2	GLN	1428	-12.098	3.228	14.416	1.00	23.44
ATOM	10437	C	GLN	1428	-15.250	6.829	16.313	1.00	20.27
ATOM	10438	O	GLN	1428	-16.089	5.991	16.661	1.00	26.53
ATOM	10439	N	VAL	1429	-15.590	7.951	15.672	1.00	17.74
ATOM	10440	CA	VAL	1429	-17.002	8.245	15.393	1.00	16.70
ATOM	10441	CB	VAL	1429	-17.390	9.676	15.820	1.00	12.97
ATOM	10442	CG1	VAL	1429	-18.876	9.729	16.136	1.00	6.20
ATOM	10443	CG2	VAL	1429	-16.561	10.136	17.019	1.00	12.75
ATOM	10444	C	VAL	1429	-17.440	8.061	13.944	1.00	21.03
ATOM	10445	O	VAL	1429	-16.630	8.169	13.025	1.00	29.80
ATOM	10446	N	THR	1430	-18.730	7.792	13.744	1.00	20.51
ATOM	10447	CA	THR	1430	-19.291	7.603	12.404	1.00	22.79
ATOM	10448	CB	THR	1430	-19.170	6.149	11.938	1.00	19.06
ATOM	10449	OG1	THR	1430	-18.379	5.400	12.871	1.00	27.72
ATOM	10450	CG2	THR	1430	-18.509	6.098	10.584	1.00	14.26
ATOM	10451	C	THR	1430	-20.765	8.023	12.388	1.00	30.90
ATOM	10452	O	THR	1430	-21.386	8.150	13.452	1.00	27.10
ATOM	10453	N	PHE	1431	-21.333	8.217	11.194	1.00	38.01
ATOM	10454	CA	PHE	1431	-22.729	8.676	11.077	1.00	45.28
ATOM	10455	CB	PHE	1431	-22.754	10.198	10.834	1.00	48.07
ATOM	10456	CG	PHE	1431	-21.760	10.971	11.665	1.00	45.05
ATOM	10457	CD1	PHE	1431	-20.467	11.198	11.188	1.00	45.75
ATOM	10458	CD2	PHE	1431	-22.102	11.437	12.936	1.00	38.04
ATOM	10459	CE1	PHE	1431	-19.528	11.876	11.966	1.00	44.30
ATOM	10460	CE2	PHE	1431	-21.171	12.117	13.720	1.00	37.26
ATOM	10461	CZ	PHE	1431	-19.882	12.334	13.237	1.00	40.20
ATOM	10462	C	PHE	1431	-23.662	8.011	10.043	1.00	47.37
ATOM	10463	O	PHE	1431	-23.317	7.847	8.867	1.00	46.69
ATOM	10464	N	ASP	1432	-24.880	7.711	10.490	1.00	55.34
ATOM	10465	CA	ASP	1432	-25.924	7.107	9.659	1.00	64.96
ATOM	10466	CB	ASP	1432	-26.628	5.969	10.410	1.00	68.18
ATOM	10467	CG	ASP	1432	-26.005	4.622	10.148	1.00	70.61
ATOM	10468	OD1	ASP	1432	-24.821	4.439	10.495	1.00	74.35
ATOM	10469	OD2	ASP	1432	-26.706	3.746	9.596	1.00	73.49
ATOM	10470	C	ASP	1432	-26.962	8.167	9.299	1.00	68.21
ATOM	10471	O	ASP	1432	-27.983	8.307	9.975	1.00	68.53
ATOM	10472	N	CYS	1433	-26.681	8.939	8.260	1.00	69.75
ATOM	10473	CA	CYS	1433	-27.598	9.984	7.814	1.00	72.16
ATOM	10474	C	CYS	1433	-27.959	9.585	6.415	1.00	73.13
ATOM	10475	O	CYS	1433	-29.048	9.857	5.917	1.00	73.45
ATOM	10476	CB	CYS	1433	-26.876	11.325	7.757	1.00	75.37
ATOM	10477	SG	CYS	1433	-25.488	11.415	8.924	1.00	78.34
ATOM	10478	N	ASP	1434	-26.992	8.930	5.794	1.00	77.03
ATOM	10479	CA	ASP	1434	-27.100	8.465	4.438	1.00	80.91
ATOM	10480	CB	ASP	1434	-25.698	8.364	3.846	1.00	87.50
ATOM	10481	CG	ASP	1434	-24.819	9.544	4.243	1.00	96.32
ATOM	10482	OD1	ASP	1434	-24.062	9.417	5.235	1.00	98.84
ATOM	10483	OD2	ASP	1434	-24.915	10.608	3.590	1.00	99.47

ATOM	10484	C	ASP	1434	-27.828	7.133	4.389	1.00	81.15
ATOM	10485	O	ASP	1434	-27.316	6.099	4.824	1.00	83.43
ATOM	10486	N	CYS	1435	-29.074	7.204	3.943	1.00	79.45
ATOM	10487	CA	CYS	1435	-29.932	6.044	3.788	1.00	78.09
ATOM	10488	CB	CYS	1435	-31.377	6.450	4.076	1.00	77.50
ATOM	10489	SG	CYS	1435	-32.590	5.165	3.803	1.00	77.95
ATOM	10490	C	CYS	1435	-29.774	5.633	2.328	1.00	79.88
ATOM	10491	O	CYS	1435	-29.698	6.495	1.449	1.00	83.05
ATOM	10492	N	ASP	1436	-29.681	4.333	2.064	1.00	80.13
ATOM	10493	CA	ASP	1436	-29.516	3.845	0.689	1.00	79.95
ATOM	10494	CB	ASP	1436	-28.238	3.014	0.569	1.00	81.42
ATOM	10495	CG	ASP	1436	-28.277	1.766	1.423	1.00	83.32
ATOM	10496	OD1	ASP	1436	-28.348	1.893	2.665	1.00	82.24
ATOM	10497	OD2	ASP	1436	-28.250	0.657	0.848	1.00	90.12
ATOM	10498	C	ASP	1436	-30.712	3.031	0.191	1.00	80.19
ATOM	10499	O	ASP	1436	-30.899	2.863	-1.020	1.00	73.98
ATOM	10500	N	CYS	1437	-31.498	2.515	1.137	1.00	81.77
ATOM	10501	CA	CYS	1437	-32.697	1.728	0.845	1.00	79.08
ATOM	10502	CB	CYS	1437	-33.134	0.937	2.094	1.00	78.34
ATOM	10503	SG	CYS	1437	-32.986	1.806	3.696	1.00	72.25
ATOM	10504	C	CYS	1437	-33.803	2.670	0.368	1.00	81.92
ATOM	10505	O	CYS	1437	-34.981	2.521	0.710	1.00	82.48
ATOM	10506	N	GLN	1438	-33.387	3.604	-0.482	1.00	82.86
ATOM	10507	CA	GLN	1438	-34.220	4.646	-1.067	1.00	84.53
ATOM	10508	CB	GLN	1438	-33.301	5.811	-1.438	1.00	85.50
ATOM	10509	CG	GLN	1438	-32.188	5.402	-2.402	1.00	85.46
ATOM	10510	CD	GLN	1438	-30.845	6.010	-2.060	1.00	87.33
ATOM	10511	OE1	GLN	1438	-30.769	7.123	-1.535	1.00	92.77
ATOM	10512	NE2	GLN	1438	-29.771	5.279	-2.356	1.00	84.79
ATOM	10513	C	GLN	1438	-35.049	4.232	-2.296	1.00	87.28
ATOM	10514	O	GLN	1438	-35.115	3.057	-2.667	1.00	84.50
ATOM	10515	N	ALA	1439	-35.688	5.232	-2.901	1.00	86.02
ATOM	10516	CA	ALA	1439	-36.513	5.080	-4.097	1.00	86.75
ATOM	10517	CB	ALA	1439	-37.990	4.952	-3.704	1.00	81.48
ATOM	10518	C	ALA	1439	-36.265	6.361	-4.917	1.00	91.86
ATOM	10519	O	ALA	1439	-35.222	7.001	-4.735	1.00	90.39
ATOM	10520	N	GLN	1440	-37.174	6.712	-5.835	1.00	96.33
ATOM	10521	CA	GLN	1440	-37.036	7.943	-6.643	1.00	95.39
ATOM	10522	CB	GLN	1440	-35.815	7.887	-7.587	1.00	96.22
ATOM	10523	CG	GLN	1440	-36.004	7.120	-8.892	1.00	96.77
ATOM	10524	CD	GLN	1440	-36.160	5.627	-8.682	1.00	97.76
ATOM	10525	OE1	GLN	1440	-37.165	5.035	-9.081	1.00	99.01
ATOM	10526	NE2	GLN	1440	-35.166	5.011	-8.048	1.00	96.46
ATOM	10527	C	GLN	1440	-38.283	8.364	-7.433	1.00	93.77
ATOM	10528	O	GLN	1440	-38.913	7.542	-8.105	1.00	93.85
ATOM	10529	N	ALA	1441	-38.623	9.652	-7.333	1.00	94.73
ATOM	10530	CA	ALA	1441	-39.774	10.247	-8.024	1.00	97.85
ATOM	10531	CB	ALA	1441	-39.413	10.535	-9.484	1.00	99.43
ATOM	10532	C	ALA	1441	-41.041	9.387	-7.942	1.00	100.00
ATOM	10533	O	ALA	1441	-41.537	8.895	-8.962	1.00	99.75
ATOM	10534	N	GLU	1442	-41.576	9.259	-6.725	1.00	100.00
ATOM	10535	CA	GLU	1442	-42.767	8.450	-6.417	1.00	99.10
ATOM	10536	CB	GLU	1442	-43.043	8.498	-4.899	1.00	97.08
ATOM	10537	CG	GLU	1442	-41.796	8.445	-3.988	1.00	91.19
ATOM	10538	CD	GLU	1442	-41.078	7.097	-3.995	1.00	89.27
ATOM	10539	OE1	GLU	1442	-41.170	6.370	-2.981	1.00	85.98
ATOM	10540	OE2	GLU	1442	-40.406	6.773	-5.001	1.00	88.04

ATOM	10541	C	GLU	1442	-44.065	8.773	-7.194	1.00100.00
ATOM	10542	O	GLU	1442	-45.091	9.124	-6.591	1.00100.00
ATOM	10543	N	ALA	1443	-44.029	8.592	-8.515	1.00 98.73
ATOM	10544	CA	ALA	1443	-45.180	8.852	-9.387	1.00 96.14
ATOM	10545	CB	ALA	1443	-45.509	10.340	-9.393	1.00 97.40
ATOM	10546	C	ALA	1443	-44.904	8.360	-10.810	1.00 93.88
ATOM	10547	O	ALA	1443	-44.153	8.993	-11.561	1.00 92.89
ATOM	10548	N	ALA	1444	-45.521	7.236	-11.173	1.00 94.09
ATOM	10549	CA	ALA	1444	-45.330	6.645	-12.498	1.00 94.06
ATOM	10550	CB	ALA	1444	-44.410	5.422	-12.403	1.00 88.96
ATOM	10551	C	ALA	1444	-46.632	6.286	-13.230	1.00 92.43
ATOM	10552	O	ALA	1444	-47.721	6.317	-12.645	1.00 91.70
ATOM	10553	N	ALA	1445	-46.481	5.910	-14.504	1.00 95.28
ATOM	10554	CA	ALA	1445	-47.572	5.555	-15.425	1.00 97.78
ATOM	10555	CB	ALA	1445	-46.985	5.075	-16.760	1.00 92.62
ATOM	10556	C	ALA	1445	-48.681	4.592	-14.968	1.00 98.28
ATOM	10557	O	ALA	1445	-48.457	3.700	-14.141	1.00 97.48
ATOM	10558	N	ALA	1446	-49.864	4.786	-15.561	1.00100.00
ATOM	10559	CA	ALA	1446	-51.094	4.010	-15.313	1.00100.00
ATOM	10560	CB	ALA	1446	-51.377	3.900	-13.809	1.00100.00
ATOM	10561	C	ALA	1446	-52.263	4.725	-16.012	1.00100.00
ATOM	10562	O	ALA	1446	-53.132	4.097	-16.621	1.00100.00
ATOM	10563	N	ALA	1447	-52.261	6.051	-15.895	1.00100.00
ATOM	10564	CA	ALA	1447	-53.262	6.941	-16.483	1.00 98.52
ATOM	10565	CB	ALA	1447	-54.646	6.673	-15.885	1.00 96.68
ATOM	10566	C	ALA	1447	-52.809	8.370	-16.167	1.00 99.72
ATOM	10567	O	ALA	1447	-53.303	9.334	-16.756	1.00 98.91
ATOM	10568	N	ALA	1448	-51.850	8.473	-15.244	1.00100.00
ATOM	10569	CA	ALA	1448	-51.260	9.737	-14.790	1.00100.00
ATOM	10570	CB	ALA	1448	-52.204	10.455	-13.814	1.00 99.50
ATOM	10571	C	ALA	1448	-49.919	9.431	-14.103	1.00100.00
ATOM	10572	O	ALA	1448	-49.887	8.768	-13.057	1.00 99.31
ATOM	10573	N	ALA	1449	-48.827	9.928	-14.692	1.00100.00
ATOM	10574	CA	ALA	1449	-47.461	9.710	-14.186	1.00100.00
ATOM	10575	CB	ALA	1449	-46.447	9.829	-15.340	1.00 94.63
ATOM	10576	C	ALA	1449	-47.010	10.558	-12.978	1.00100.00
ATOM	10577	O	ALA	1449	-47.557	10.423	-11.877	1.00100.00
ATOM	10578	N	ALA	1450	-45.991	11.400	-13.183	1.00 99.63
ATOM	10579	CA	ALA	1450	-45.445	12.251	-12.125	1.00 98.16
ATOM	10580	CB	ALA	1450	-44.106	12.846	-12.556	1.00 93.54
ATOM	10581	C	ALA	1450	-46.392	13.352	-11.644	1.00 97.16
ATOM	10582	O	ALA	1450	-47.227	13.857	-12.403	1.00 94.47
ATOM	10583	N	ALA	1451	-46.251	13.703	-10.367	1.00100.00
ATOM	10584	CA	ALA	1451	-47.071	14.733	-9.731	1.00100.00
ATOM	10585	CB	ALA	1451	-48.187	14.081	-8.915	1.00 97.83
ATOM	10586	C	ALA	1451	-46.227	15.651	-8.840	1.00 99.08
ATOM	10587	O	ALA	1451	-46.760	16.530	-8.156	1.00 99.18
ATOM	10588	N	ALA	1452	-44.912	15.441	-8.858	1.00 96.30
ATOM	10589	CA	ALA	1452	-43.978	16.234	-8.062	1.00 93.54
ATOM	10590	CB	ALA	1452	-42.597	15.575	-8.070	1.00 92.11
ATOM	10591	C	ALA	1452	-43.887	17.682	-8.560	1.00 92.43
ATOM	10592	O	ALA	1452	-43.103	17.987	-9.464	1.00 93.52
ATOM	10593	N	ALA	1453	-44.714	18.554	-7.979	1.00 91.12
ATOM	10594	CA	ALA	1453	-44.762	19.983	-8.320	1.00 89.75
ATOM	10595	CB	ALA	1453	-43.524	20.702	-7.779	1.00 90.50
ATOM	10596	C	ALA	1453	-44.949	20.291	-9.812	1.00 89.78
ATOM	10597	O	ALA	1453	-44.770	21.435	-10.250	1.00 86.21

ATOM	10598	N	ALA	1454	-45.322	19.272	-10.580	1.00	87.83
ATOM	10599	CA	ALA	1454	-45.543	19.415	-12.011	1.00	90.50
ATOM	10600	CB	ALA	1454	-44.487	18.636	-12.783	1.00	90.28
ATOM	10601	C	ALA	1454	-46.948	18.948	-12.401	1.00	93.64
ATOM	10602	O	ALA	1454	-47.319	19.005	-13.576	1.00	92.22
ATOM	10603	N	ALA	1455	-47.721	18.496	-11.414	1.00	92.44
ATOM	10604	CA	ALA	1455	-49.089	18.025	-11.639	1.00	94.98
ATOM	10605	CB	ALA	1455	-49.586	17.244	-10.430	1.00	92.30
ATOM	10606	C	ALA	1455	-50.030	19.193	-11.948	1.00	95.23
ATOM	10607	O	ALA	1455	-50.801	19.637	-11.090	1.00	93.58
ATOM	10608	N	ALA	1456	-49.931	19.688	-13.183	1.00	97.50
ATOM	10609	CA	ALA	1456	-50.732	20.802	-13.696	1.00	97.47
ATOM	10610	CB	ALA	1456	-52.212	20.438	-13.713	1.00	93.98
ATOM	10611	C	ALA	1456	-50.516	22.124	-12.963	1.00	98.83
ATOM	10612	O	ALA	1456	-50.946	23.178	-13.445	1.00	99.46
ATOM	10613	N	ALA	1457	-49.840	22.056	-11.814	1.00	98.50
ATOM	10614	CA	ALA	1457	-49.543	23.219	-10.975	1.00	99.56
ATOM	10615	CB	ALA	1457	-48.596	24.182	-11.703	1.00	98.15
ATOM	10616	C	ALA	1457	-50.811	23.946	-10.517	1.00	99.64
ATOM	10617	O	ALA	1457	-51.187	24.978	-11.086	1.00	98.91
ATOM	10618	N	ALA	1458	-51.467	23.381	-9.501	1.00	98.04
ATOM	10619	CA	ALA	1458	-52.705	23.921	-8.923	1.00	99.28
ATOM	10620	CB	ALA	1458	-52.485	25.343	-8.394	1.00	99.47
ATOM	10621	C	ALA	1458	-53.903	23.879	-9.879	1.00	97.78
ATOM	10622	O	ALA	1458	-55.045	24.118	-9.473	1.00	97.13
ATOM	10623	N	ALA	1459	-53.625	23.587	-11.148	1.00	97.45
ATOM	10624	CA	ALA	1459	-54.647	23.485	-12.183	1.00	96.96
ATOM	10625	CB	ALA	1459	-54.148	24.132	-13.478	1.00	91.21
ATOM	10626	C	ALA	1459	-54.991	22.007	-12.417	1.00	97.05
ATOM	10627	O	ALA	1459	-55.412	21.621	-13.514	1.00	97.11
ATOM	10628	N	ALA	1460	-54.813	21.191	-11.376	1.00	93.75
ATOM	10629	CA	ALA	1460	-55.089	19.757	-11.445	1.00	94.90
ATOM	10630	CB	ALA	1460	-53.831	18.959	-11.089	1.00	87.79
ATOM	10631	C	ALA	1460	-56.269	19.330	-10.558	1.00	93.18
ATOM	10632	O	ALA	1460	-57.395	19.209	-11.048	1.00	94.27
ATOM	10633	N	ALA	1461	-56.005	19.115	-9.265	1.00	96.43
ATOM	10634	CA	ALA	1461	-57.022	18.688	-8.288	1.00	93.97
ATOM	10635	CB	ALA	1461	-57.523	17.293	-8.631	1.00	92.71
ATOM	10636	C	ALA	1461	-56.497	18.696	-6.846	1.00	90.12
ATOM	10637	O	ALA	1461	-55.351	19.083	-6.597	1.00	93.24
ATOM	10638	N	ALA	1462	-57.331	18.240	-5.911	1.00	87.64
ATOM	10639	CA	ALA	1462	-56.972	18.185	-4.492	1.00	86.56
ATOM	10640	CB	ALA	1462	-56.546	19.572	-3.991	1.00	86.88
ATOM	10641	C	ALA	1462	-58.109	17.649	-3.623	1.00	86.04
ATOM	10642	O	ALA	1462	-59.176	17.303	-4.119	1.00	85.50
ATOM	10643	N	ALA	1463	-57.861	17.585	-2.319	1.00	87.28
ATOM	10644	CA	ALA	1463	-58.847	17.114	-1.349	1.00	90.49
ATOM	10645	CB	ALA	1463	-58.616	15.634	-1.028	1.00	86.65
ATOM	10646	C	ALA	1463	-58.730	17.948	-0.076	1.00	93.54
ATOM	10647	O	ALA	1463	-58.126	19.025	-0.079	1.00	94.08
ATOM	10648	N	ALA	1464	-59.325	17.453	1.005	1.00	95.66
ATOM	10649	CA	ALA	1464	-59.270	18.131	2.297	1.00	94.31
ATOM	10650	CB	ALA	1464	-60.643	18.093	2.968	1.00	95.88
ATOM	10651	C	ALA	1464	-58.208	17.465	3.190	1.00	95.14
ATOM	10652	O	ALA	1464	-58.131	17.739	4.395	1.00	91.77
ATOM	10653	N	ALA	1465	-57.392	16.600	2.578	1.00	97.28
ATOM	10654	CA	ALA	1465	-56.320	15.870	3.266	1.00	95.16

ATOM	10655	CB	ALA	1465	-56.784	14.457	3.617	1.00	97.09
ATOM	10656	C	ALA	1465	-55.029	15.805	2.437	1.00	94.64
ATOM	10657	O	ALA	1465	-53.931	15.918	2.982	1.00	88.77
ATOM	10658	N	ALA	1466	-55.170	15.618	1.126	1.00	95.64
ATOM	10659	CA	ALA	1466	-54.023	15.534	0.219	1.00	97.16
ATOM	10660	CB	ALA	1466	-53.388	14.139	0.293	1.00	92.61
ATOM	10661	C	ALA	1466	-54.379	15.896	-1.239	1.00	99.77
ATOM	10662	O	ALA	1466	-54.153	17.033	-1.670	1.00	100.00
ATOM	10663	N	ALA	1467	-54.922	14.930	-1.985	1.00	100.00
ATOM	10664	CA	ALA	1467	-55.323	15.114	-3.389	1.00	99.33
ATOM	10665	CB	ALA	1467	-54.094	15.049	-4.314	1.00	96.66
ATOM	10666	C	ALA	1467	-56.341	14.037	-3.784	1.00	100.00
ATOM	10667	O	ALA	1467	-55.961	12.900	-4.085	1.00	98.39
ATOM	10668	N	ALA	1468	-57.622	14.417	-3.823	1.00	100.00
ATOM	10669	CA	ALA	1468	-58.725	13.496	-4.143	1.00	100.00
ATOM	10670	CB	ALA	1468	-60.050	14.031	-3.571	1.00	93.45
ATOM	10671	C	ALA	1468	-58.917	13.053	-5.603	1.00	98.48
ATOM	10672	O	ALA	1468	-59.614	12.066	-5.856	1.00	99.48
ATOM	10673	N	ALA	1469	-58.314	13.762	-6.554	1.00	98.27
ATOM	10674	CA	ALA	1469	-58.458	13.390	-7.963	1.00	98.75
ATOM	10675	CB	ALA	1469	-59.313	14.413	-8.697	1.00	96.90
ATOM	10676	C	ALA	1469	-57.131	13.181	-8.696	1.00	99.19
ATOM	10677	O	ALA	1469	-56.073	13.064	-8.069	1.00	96.52
ATOM	10678	N	ALA	1470	-57.213	13.113	-10.029	1.00	98.83
ATOM	10679	CA	ALA	1470	-56.052	12.916	-10.900	1.00	98.07
ATOM	10680	CB	ALA	1470	-56.399	11.913	-12.014	1.00	97.47
ATOM	10681	C	ALA	1470	-55.545	14.239	-11.500	1.00	97.72
ATOM	10682	O	ALA	1470	-55.279	15.198	-10.772	1.00	94.56
ATOM	10683	N	ALA	1471	-55.404	14.280	-12.825	1.00	99.39
ATOM	10684	CA	ALA	1471	-54.932	15.480	-13.520	1.00	99.51
ATOM	10685	CB	ALA	1471	-53.769	15.127	-14.450	1.00	97.37
ATOM	10686	C	ALA	1471	-56.042	16.200	-14.302	1.00	100.00
ATOM	10687	O	ALA	1471	-55.957	17.414	-14.537	1.00	100.00
ATOM	10688	N	ALA	1472	-57.075	15.450	-14.697	1.00	100.00
ATOM	10689	CA	ALA	1472	-58.204	15.998	-15.455	1.00	98.35
ATOM	10690	CB	ALA	1472	-58.582	15.054	-16.595	1.00	96.49
ATOM	10691	C	ALA	1472	-59.438	16.324	-14.598	1.00	100.00
ATOM	10692	O	ALA	1472	-60.273	17.141	-15.007	1.00	100.00
ATOM	10693	N	ALA	1473	-59.548	15.689	-13.425	1.00	100.00
ATOM	10694	CA	ALA	1473	-60.672	15.907	-12.495	1.00	100.00
ATOM	10695	CB	ALA	1473	-61.078	14.580	-11.836	1.00	95.94
ATOM	10696	C	ALA	1473	-60.349	16.966	-11.420	1.00	99.84
ATOM	10697	O	ALA	1473	-59.177	17.250	-11.160	1.00	100.00
ATOM	10698	N	ALA	1474	-61.387	17.547	-10.805	1.00	100.00
ATOM	10699	CA	ALA	1474	-61.220	18.579	-9.768	1.00	99.46
ATOM	10700	CB	ALA	1474	-62.321	19.623	-9.877	1.00	95.75
ATOM	10701	C	ALA	1474	-61.147	18.040	-8.334	1.00	98.28
ATOM	10702	O	ALA	1474	-60.362	18.536	-7.524	1.00	99.54
ATOM	10703	N	ALA	1475	-62.010	17.071	-8.020	1.00	97.77
ATOM	10704	CA	ALA	1475	-62.067	16.418	-6.708	1.00	97.46
ATOM	10705	CB	ALA	1475	-60.665	16.029	-6.251	1.00	95.03
ATOM	10706	C	ALA	1475	-62.829	17.120	-5.568	1.00	100.00
ATOM	10707	O	ALA	1475	-63.922	17.660	-5.773	1.00	98.84
ATOM	10708	N	ALA	1476	-62.260	17.048	-4.362	1.00	99.85
ATOM	10709	CA	ALA	1476	-62.839	17.630	-3.146	1.00	99.34
ATOM	10710	CB	ALA	1476	-62.151	17.037	-1.913	1.00	98.63
ATOM	10711	C	ALA	1476	-62.808	19.157	-3.075	1.00	99.67

ATOM	10712	O	ALA	1476	-61.993	19.803	-3.739	1.00100.00
ATOM	10713	N	ALA	1477	-63.684	19.722	-2.244	1.00 99.74
ATOM	10714	CA	ALA	1477	-63.775	21.175	-2.058	1.00100.00
ATOM	10715	CB	ALA	1477	-65.127	21.683	-2.545	1.00 96.01
ATOM	10716	C	ALA	1477	-63.531	21.605	-0.600	1.00100.00
ATOM	10717	O	ALA	1477	-63.237	20.769	0.265	1.00100.00
ATOM	10718	N	ALA	1478	-63.626	22.913	-0.342	1.00 99.71
ATOM	10719	CA	ALA	1478	-63.417	23.472	0.999	1.00 98.61
ATOM	10720	CB	ALA	1478	-63.157	24.979	0.907	1.00 95.01
ATOM	10721	C	ALA	1478	-64.608	23.193	1.924	1.00 99.13
ATOM	10722	O	ALA	1478	-65.763	23.296	1.502	1.00100.00
ATOM	10723	N	ALA	1479	-64.324	22.844	3.181	1.00 98.74
ATOM	10724	CA	ALA	1479	-65.371	22.550	4.169	1.00100.00
ATOM	10725	CB	ALA	1479	-64.801	21.702	5.317	1.00 94.44
ATOM	10726	C	ALA	1479	-66.032	23.823	4.713	1.00 97.63
ATOM	10727	O	ALA	1479	-66.183	23.991	5.927	1.00 97.46
ATOM	10728	N	ALA	1480	-66.439	24.699	3.793	1.00 98.46
ATOM	10729	CA	ALA	1480	-67.089	25.971	4.114	1.00 99.43
ATOM	10730	CB	ALA	1480	-66.090	27.127	3.958	1.00 94.84
ATOM	10731	C	ALA	1480	-68.293	26.183	3.187	1.00100.00
ATOM	10732	O	ALA	1480	-69.431	26.302	3.651	1.00 99.84
ATOM	10733	N	ALA	1481	-68.011	26.240	1.883	1.00100.00
ATOM	10734	CA	ALA	1481	-69.003	26.418	0.810	1.00 99.85
ATOM	10735	CB	ALA	1481	-69.944	27.604	1.112	1.00 99.54
ATOM	10736	C	ALA	1481	-68.291	26.628	-0.539	1.00 99.75
ATOM	10737	O	ALA	1481	-68.587	27.586	-1.260	1.00 97.07
ATOM	10738	N	ALA	1482	-67.343	25.739	-0.860	1.00100.00
ATOM	10739	CA	ALA	1482	-66.571	25.804	-2.114	1.00100.00
ATOM	10740	CB	ALA	1482	-65.065	25.783	-1.824	1.00 96.48
ATOM	10741	C	ALA	1482	-66.943	24.665	-3.071	1.00100.00
ATOM	10742	O	ALA	1482	-67.568	23.681	-2.660	1.00100.00
ATOM	10743	N	ALA	1483	-66.524	24.787	-4.335	1.00100.00
ATOM	10744	CA	ALA	1483	-66.836	23.786	-5.359	1.00 98.77
ATOM	10745	CB	ALA	1483	-67.796	24.385	-6.379	1.00 96.40
ATOM	10746	C	ALA	1483	-65.635	23.158	-6.079	1.00 98.15
ATOM	10747	O	ALA	1483	-64.507	23.652	-5.992	1.00 99.66
ATOM	10748	N	ALA	1484	-65.905	22.061	-6.788	1.00 97.59
ATOM	10749	CA	ALA	1484	-64.903	21.319	-7.561	1.00 98.04
ATOM	10750	CB	ALA	1484	-63.790	20.806	-6.649	1.00 94.28
ATOM	10751	C	ALA	1484	-65.583	20.152	-8.287	1.00 97.18
ATOM	10752	O	ALA	1484	-65.685	19.049	-7.742	1.00 96.66
ATOM	10753	N	ALA	1485	-66.053	20.413	-9.510	1.00 98.39
ATOM	10754	CA	ALA	1485	-66.749	19.415	-10.337	1.00 98.06
ATOM	10755	CB	ALA	1485	-68.062	19.999	-10.879	1.00 95.23
ATOM	10756	C	ALA	1485	-65.894	18.904	-11.492	1.00 94.91
ATOM	10757	O	ALA	1485	-64.709	19.222	-11.579	1.00 92.83
ATOM	10758	N	ALA	1486	-66.507	18.113	-12.373	1.00 95.70
ATOM	10759	CA	ALA	1486	-65.815	17.561	-13.543	1.00 97.82
ATOM	10760	CB	ALA	1486	-66.746	16.630	-14.326	1.00 91.69
ATOM	10761	C	ALA	1486	-65.304	18.687	-14.452	1.00 98.90
ATOM	10762	O	ALA	1486	-64.374	18.486	-15.238	1.00 99.82
ATOM	10763	N	ALA	1487	-65.918	19.867	-14.323	1.00100.00
ATOM	10764	CA	ALA	1487	-65.554	21.057	-15.100	1.00 99.78
ATOM	10765	CB	ALA	1487	-66.811	21.710	-15.683	1.00 98.10
ATOM	10766	C	ALA	1487	-64.781	22.064	-14.235	1.00100.00
ATOM	10767	O	ALA	1487	-65.223	23.203	-14.038	1.00 98.28
ATOM	10768	N	ALA	1488	-63.627	21.626	-13.728	1.00100.00

ATOM	10769	CA	ALA	1488	-62.761	22.449	-12.881	1.00	97.21
ATOM	10770	CB	ALA	1488	-63.381	22.612	-11.485	1.00	96.68
ATOM	10771	C	ALA	1488	-61.345	21.863	-12.770	1.00	98.37
ATOM	10772	O	ALA	1488	-61.078	20.747	-13.231	1.00	96.32
ATOM	10773	N	ALA	1489	-60.446	22.634	-12.159	1.00	97.01
ATOM	10774	CA	ALA	1489	-59.052	22.236	-11.971	1.00	96.17
ATOM	10775	CB	ALA	1489	-58.141	23.095	-12.846	1.00	93.81
ATOM	10776	C	ALA	1489	-58.660	22.369	-10.498	1.00	92.86
ATOM	10777	O	ALA	1489	-58.357	21.375	-9.834	1.00	90.90
ATOM	10778	N	ALA	1490	-58.673	23.599	-9.992	1.00	93.97
ATOM	10779	CA	ALA	1490	-58.340	23.850	-8.595	1.00	96.12
ATOM	10780	CB	ALA	1490	-58.195	25.363	-8.335	1.00	91.11
ATOM	10781	C	ALA	1490	-59.439	23.258	-7.710	1.00	95.57
ATOM	10782	O	ALA	1490	-60.612	23.630	-7.830	1.00	97.01
ATOM	10783	N	ALA	1491	-59.070	22.282	-6.882	1.00	95.85
ATOM	10784	CA	ALA	1491	-60.020	21.656	-5.969	1.00	93.96
ATOM	10785	CB	ALA	1491	-59.471	20.353	-5.463	1.00	89.04
ATOM	10786	C	ALA	1491	-60.271	22.625	-4.807	1.00	97.38
ATOM	10787	O	ALA	1491	-60.756	23.737	-5.039	1.00	100.00
ATOM	10788	N	ALA	1492	-59.943	22.215	-3.578	1.00	99.40
ATOM	10789	CA	ALA	1492	-60.113	23.062	-2.382	1.00	100.00
ATOM	10790	CB	ALA	1492	-61.500	23.740	-2.375	1.00	99.62
ATOM	10791	C	ALA	1492	-59.862	22.367	-1.031	1.00	100.00
ATOM	10792	O	ALA	1492	-59.908	21.134	-0.920	1.00	100.00
ATOM	10793	N	ALA	1493	-59.615	23.190	-0.009	1.00	100.00
ATOM	10794	CA	ALA	1493	-59.354	22.742	1.361	1.00	100.00
ATOM	10795	CB	ALA	1493	-57.970	22.091	1.454	1.00	100.00
ATOM	10796	C	ALA	1493	-59.441	23.960	2.294	1.00	100.00
ATOM	10797	O	ALA	1493	-60.044	24.974	1.925	1.00	98.50
ATOM	10798	N	ALA	1494	-58.846	23.862	3.489	1.00	100.00
ATOM	10799	CA	ALA	1494	-58.861	24.967	4.463	1.00	98.97
ATOM	10800	CB	ALA	1494	-60.298	25.201	4.976	1.00	99.18
ATOM	10801	C	ALA	1494	-57.877	24.832	5.648	1.00	94.01
ATOM	10802	O	ALA	1494	-56.659	24.870	5.464	1.00	89.66
ATOM	10803	N	ALA	1495	-58.424	24.730	6.858	1.00	92.62
ATOM	10804	CA	ALA	1495	-57.644	24.598	8.084	1.00	92.88
ATOM	10805	CB	ALA	1495	-56.606	25.705	8.169	1.00	91.06
ATOM	10806	C	ALA	1495	-58.604	24.674	9.271	1.00	95.05
ATOM	10807	O	ALA	1495	-59.595	23.947	9.300	1.00	94.30
ATOM	10808	N	ALA	1496	-58.288	25.542	10.235	1.00	96.98
ATOM	10809	CA	ALA	1496	-59.076	25.793	11.457	1.00	98.43
ATOM	10810	CB	ALA	1496	-60.001	27.001	11.247	1.00	96.20
ATOM	10811	C	ALA	1496	-59.852	24.636	12.106	1.00	98.43
ATOM	10812	O	ALA	1496	-59.468	24.149	13.174	1.00	96.97
ATOM	10813	N	ALA	1497	-60.966	24.237	11.484	1.00	100.00
ATOM	10814	CA	ALA	1497	-61.814	23.155	11.992	1.00	97.64
ATOM	10815	CB	ALA	1497	-62.933	23.743	12.862	1.00	94.91
ATOM	10816	C	ALA	1497	-62.417	22.260	10.894	1.00	98.46
ATOM	10817	O	ALA	1497	-63.262	21.413	11.190	1.00	96.40
ATOM	10818	N	ALA	1498	-61.960	22.434	9.649	1.00	94.97
ATOM	10819	CA	ALA	1498	-62.438	21.674	8.483	1.00	91.29
ATOM	10820	CB	ALA	1498	-61.688	22.122	7.226	1.00	91.88
ATOM	10821	C	ALA	1498	-62.327	20.158	8.650	1.00	88.32
ATOM	10822	O	ALA	1498	-63.008	19.573	9.489	1.00	88.74
ATOM	10823	N	ALA	1499	-61.518	19.516	7.812	1.00	87.48
ATOM	10824	CA	ALA	1499	-61.332	18.075	7.917	1.00	87.45
ATOM	10825	CB	ALA	1499	-60.601	17.545	6.689	1.00	82.77

ATOM	10826	C	ALA	1499	-60.528	17.808	9.199	1.00	89.84
ATOM	10827	O	ALA	1499	-61.105	17.584	10.268	1.00	88.68
ATOM	10828	N	ALA	1500	-59.203	17.887	9.087	1.00	91.93
ATOM	10829	CA	ALA	1500	-58.275	17.680	10.206	1.00	93.99
ATOM	10830	CB	ALA	1500	-58.562	16.356	10.924	1.00	92.63
ATOM	10831	C	ALA	1500	-56.840	17.694	9.679	1.00	94.54
ATOM	10832	O	ALA	1500	-55.906	17.292	10.378	1.00	95.59
ATOM	10833	N	ALA	1501	-56.682	18.163	8.442	1.00	91.37
ATOM	10834	CA	ALA	1501	-55.382	18.248	7.781	1.00	90.69
ATOM	10835	CB	ALA	1501	-55.078	16.935	7.066	1.00	90.63
ATOM	10836	C	ALA	1501	-55.392	19.413	6.786	1.00	90.25
ATOM	10837	O	ALA	1501	-56.159	20.362	6.961	1.00	88.35
ATOM	10838	N	ALA	1502	-54.542	19.340	5.758	1.00	89.33
ATOM	10839	CA	ALA	1502	-54.447	20.380	4.724	1.00	88.79
ATOM	10840	CB	ALA	1502	-54.175	21.734	5.366	1.00	86.18
ATOM	10841	C	ALA	1502	-53.377	20.086	3.663	1.00	89.59
ATOM	10842	O	ALA	1502	-52.238	19.761	4.005	1.00	89.28
ATOM	10843	N	ALA	1503	-53.738	20.241	2.386	1.00	89.15
ATOM	10844	CA	ALA	1503	-52.810	20.006	1.271	1.00	88.69
ATOM	10845	CB	ALA	1503	-52.535	18.513	1.115	1.00	89.42
ATOM	10846	C	ALA	1503	-53.285	20.588	-0.067	1.00	90.08
ATOM	10847	O	ALA	1503	-54.035	19.938	-0.798	1.00	92.14
ATOM	10848	N	ALA	1504	-52.829	21.802	-0.387	1.00	89.77
ATOM	10849	CA	ALA	1504	-53.183	22.490	-1.636	1.00	87.84
ATOM	10850	CB	ALA	1504	-52.711	23.944	-1.584	1.00	79.57
ATOM	10851	C	ALA	1504	-52.554	21.762	-2.833	1.00	90.34
ATOM	10852	O	ALA	1504	-51.473	22.140	-3.304	1.00	90.20
ATOM	10853	N	ALA	1505	-53.269	20.741	-3.322	1.00	90.44
ATOM	10854	CA	ALA	1505	-52.864	19.854	-4.431	1.00	89.34
ATOM	10855	CB	ALA	1505	-52.145	20.627	-5.553	1.00	83.40
ATOM	10856	C	ALA	1505	-51.966	18.744	-3.877	1.00	89.68
ATOM	10857	O	ALA	1505	-51.940	17.628	-4.410	1.00	89.60
ATOM	10858	N	ALA	1506	-51.291	19.079	-2.773	1.00	87.19
ATOM	10859	CA	ALA	1506	-50.353	18.241	-2.013	1.00	83.08
ATOM	10860	CB	ALA	1506	-49.669	17.209	-2.910	1.00	81.25
ATOM	10861	C	ALA	1506	-49.309	19.186	-1.402	1.00	84.45
ATOM	10862	O	ALA	1506	-48.101	18.935	-1.483	1.00	80.92
ATOM	10863	N	ALA	1507	-49.785	20.298	-0.837	1.00	82.63
ATOM	10864	CA	ALA	1507	-48.917	21.304	-0.215	1.00	79.25
ATOM	10865	CB	ALA	1507	-49.025	22.640	-0.959	1.00	78.65
ATOM	10866	C	ALA	1507	-49.244	21.493	1.268	1.00	79.37
ATOM	10867	O	ALA	1507	-48.772	20.724	2.108	1.00	77.97
ATOM	10868	N	ALA	1508	-50.070	22.492	1.585	1.00	79.36
ATOM	10869	CA	ALA	1508	-50.432	22.756	2.975	1.00	81.26
ATOM	10870	CB	ALA	1508	-49.182	23.047	3.764	1.00	83.53
ATOM	10871	C	ALA	1508	-51.451	23.880	3.195	1.00	83.73
ATOM	10872	O	ALA	1508	-51.930	24.499	2.240	1.00	85.41
ATOM	10873	N	ALA	1509	-51.768	24.120	4.473	1.00	85.25
ATOM	10874	CA	ALA	1509	-52.703	25.164	4.916	1.00	90.57
ATOM	10875	CB	ALA	1509	-54.064	24.987	4.241	1.00	79.63
ATOM	10876	C	ALA	1509	-52.857	25.174	6.456	1.00	95.11
ATOM	10877	O	ALA	1509	-53.630	24.381	7.005	1.00	97.38
ATOM	10878	N	ALA	1510	-52.121	26.070	7.134	1.00	98.65
ATOM	10879	CA	ALA	1510	-52.140	26.217	8.607	1.00	97.75
ATOM	10880	CB	ALA	1510	-50.820	26.803	9.098	1.00	94.89
ATOM	10881	C	ALA	1510	-53.323	27.057	9.128	1.00	98.59
ATOM	10882	O	ALA	1510	-53.777	27.984	8.453	1.00	99.04

ATOM	10883	N	ALA	1511	-53.765	26.768	10.354	1.00	98.22
ATOM	10884	CA	ALA	1511	-54.924	27.428	10.978	1.00	97.42
ATOM	10885	CB	ALA	1511	-55.473	26.544	12.102	1.00	95.47
ATOM	10886	C	ALA	1511	-54.834	28.895	11.441	1.00	95.42
ATOM	10887	O	ALA	1511	-54.348	29.755	10.705	1.00	93.31
ATOM	10888	N	ALA	1512	-55.371	29.166	12.638	1.00	99.20
ATOM	10889	CA	ALA	1512	-55.417	30.504	13.262	1.00	100.00
ATOM	10890	CB	ALA	1512	-56.016	30.405	14.673	1.00	95.96
ATOM	10891	C	ALA	1512	-54.097	31.293	13.302	1.00	100.00
ATOM	10892	O	ALA	1512	-54.103	32.535	13.278	1.00	99.21
ATOM	10893	N	ALA	1513	-52.978	30.573	13.393	1.00	99.52
ATOM	10894	CA	ALA	1513	-51.660	31.199	13.417	1.00	97.85
ATOM	10895	CB	ALA	1513	-50.594	30.172	13.800	1.00	93.37
ATOM	10896	C	ALA	1513	-51.355	31.817	12.040	1.00	99.37
ATOM	10897	O	ALA	1513	-51.025	33.005	11.950	1.00	99.34
ATOM	10898	N	ALA	1514	-51.517	31.021	10.978	1.00	99.12
ATOM	10899	CA	ALA	1514	-51.267	31.472	9.601	1.00	98.33
ATOM	10900	CB	ALA	1514	-49.760	31.633	9.363	1.00	98.27
ATOM	10901	C	ALA	1514	-51.889	30.562	8.520	1.00	97.35
ATOM	10902	O	ALA	1514	-53.097	30.322	8.520	1.00	96.58
ATOM	10903	N	ALA	1515	-51.061	30.104	7.578	1.00	92.65
ATOM	10904	CA	ALA	1515	-51.489	29.235	6.480	1.00	85.97
ATOM	10905	CB	ALA	1515	-52.513	29.942	5.601	1.00	86.28
ATOM	10906	C	ALA	1515	-50.282	28.810	5.645	1.00	83.03
ATOM	10907	O	ALA	1515	-50.395	27.942	4.785	1.00	83.04
ATOM	10908	N	ALA	1516	-49.145	29.453	5.906	1.00	80.13
ATOM	10909	CA	ALA	1516	-47.857	29.211	5.243	1.00	77.40
ATOM	10910	CB	ALA	1516	-47.014	28.254	6.070	1.00	78.75
ATOM	10911	C	ALA	1516	-47.837	28.804	3.763	1.00	78.05
ATOM	10912	O	ALA	1516	-48.403	27.779	3.368	1.00	74.45
ATOM	10913	N	ALA	1517	-47.121	29.601	2.967	1.00	76.32
ATOM	10914	CA	ALA	1517	-46.983	29.380	1.532	1.00	74.71
ATOM	10915	CB	ALA	1517	-46.040	30.415	0.928	1.00	63.82
ATOM	10916	C	ALA	1517	-46.475	27.970	1.258	1.00	74.85
ATOM	10917	O	ALA	1517	-45.285	27.686	1.440	1.00	73.14
ATOM	10918	N	ALA	1518	-47.407	27.091	0.874	1.00	77.10
ATOM	10919	CA	ALA	1518	-47.134	25.684	0.564	1.00	79.50
ATOM	10920	CB	ALA	1518	-46.786	25.520	-0.917	1.00	75.26
ATOM	10921	C	ALA	1518	-46.052	25.057	1.459	1.00	80.37
ATOM	10922	O	ALA	1518	-44.961	24.690	0.992	1.00	81.73
ATOM	10923	N	ALA	1519	-46.360	24.979	2.752	1.00	75.46
ATOM	10924	CA	ALA	1519	-45.458	24.415	3.745	1.00	69.44
ATOM	10925	CB	ALA	1519	-44.106	25.123	3.684	1.00	60.78
ATOM	10926	C	ALA	1519	-46.044	24.509	5.155	1.00	66.78
ATOM	10927	O	ALA	1519	-45.340	24.268	6.126	1.00	66.68
ATOM	10928	N	ALA	1520	-47.328	24.857	5.263	1.00	67.53
ATOM	10929	CA	ALA	1520	-48.019	24.986	6.562	1.00	69.96
ATOM	10930	CB	ALA	1520	-49.400	25.541	6.359	1.00	62.08
ATOM	10931	C	ALA	1520	-48.095	23.665	7.323	1.00	66.35
ATOM	10932	O	ALA	1520	-47.713	23.594	8.495	1.00	60.13
ATOM	10933	N	ALA	1521	-48.683	22.659	6.672	1.00	68.30
ATOM	10934	CA	ALA	1521	-48.783	21.301	7.207	1.00	73.11
ATOM	10935	CB	ALA	1521	-49.966	20.550	6.600	1.00	72.07
ATOM	10936	C	ALA	1521	-47.469	20.718	6.714	1.00	74.13
ATOM	10937	O	ALA	1521	-47.421	19.911	5.783	1.00	66.21
ATOM	10938	N	ALA	1522	-46.411	21.305	7.262	1.00	78.34
ATOM	10939	CA	ALA	1522	-45.021	20.998	6.986	1.00	82.46

ATOM	10940	CB	ALA	1522	-44.730	21.137	5.487	1.00	81.36
ATOM	10941	C	ALA	1522	-44.211	22.029	7.785	1.00	86.96
ATOM	10942	O	ALA	1522	-42.995	21.933	7.875	1.00	90.67
ATOM	10943	N	ALA	1523	-44.893	23.022	8.359	1.00	86.27
ATOM	10944	CA	ALA	1523	-44.232	24.065	9.146	1.00	83.11
ATOM	10945	CB	ALA	1523	-44.808	25.436	8.804	1.00	84.87
ATOM	10946	C	ALA	1523	-44.329	23.803	10.651	1.00	83.14
ATOM	10947	O	ALA	1523	-45.363	24.055	11.279	1.00	83.68
ATOM	10948	N	ALA	1524	-43.237	23.278	11.200	1.00	80.65
ATOM	10949	CA	ALA	1524	-43.082	22.939	12.620	1.00	80.17
ATOM	10950	CB	ALA	1524	-44.326	22.252	13.174	1.00	78.78
ATOM	10951	C	ALA	1524	-41.892	21.997	12.700	1.00	81.81
ATOM	10952	O	ALA	1524	-41.394	21.694	13.793	1.00	79.68
ATOM	10953	N	ALA	1525	-41.465	21.537	11.519	1.00	84.13
ATOM	10954	CA	ALA	1525	-40.329	20.628	11.355	1.00	90.67
ATOM	10955	CB	ALA	1525	-40.554	19.335	12.168	1.00	93.66
ATOM	10956	C	ALA	1525	-39.997	20.275	9.887	1.00	95.92
ATOM	10957	O	ALA	1525	-38.890	19.799	9.605	1.00	95.77
ATOM	10958	N	ALA	1526	-40.916	20.545	8.952	1.00	96.94
ATOM	10959	CA	ALA	1526	-40.700	20.192	7.537	1.00	95.05
ATOM	10960	CB	ALA	1526	-41.892	19.381	7.012	1.00	93.83
ATOM	10961	C	ALA	1526	-40.296	21.261	6.504	1.00	97.54
ATOM	10962	O	ALA	1526	-39.510	20.955	5.600	1.00	98.79
ATOM	10963	N	ALA	1527	-40.840	22.476	6.595	1.00	93.96
ATOM	10964	CA	ALA	1527	-40.503	23.539	5.632	1.00	93.93
ATOM	10965	CB	ALA	1527	-41.088	23.210	4.255	1.00	93.90
ATOM	10966	C	ALA	1527	-40.920	24.950	6.053	1.00	93.57
ATOM	10967	O	ALA	1527	-41.432	25.153	7.157	1.00	98.36
ATOM	10968	N	ALA	1528	-40.688	25.912	5.155	1.00	90.89
ATOM	10969	CA	ALA	1528	-41.018	27.328	5.361	1.00	90.19
ATOM	10970	CB	ALA	1528	-42.507	27.500	5.672	1.00	86.03
ATOM	10971	C	ALA	1528	-40.172	28.029	6.424	1.00	92.86
ATOM	10972	O	ALA	1528	-40.521	28.029	7.605	1.00	96.30
ATOM	10973	N	ALA	1529	-39.065	28.632	5.994	1.00	94.59
ATOM	10974	CA	ALA	1529	-38.165	29.363	6.893	1.00	89.97
ATOM	10975	CB	ALA	1529	-36.873	28.582	7.104	1.00	90.54
ATOM	10976	C	ALA	1529	-37.863	30.747	6.312	1.00	89.07
ATOM	10977	O	ALA	1529	-37.547	31.689	7.050	1.00	84.24
ATOM	10978	N	ALA	1530	-37.984	30.855	4.987	1.00	89.57
ATOM	10979	CA	ALA	1530	-37.750	32.099	4.249	1.00	90.61
ATOM	10980	CB	ALA	1530	-37.272	31.783	2.832	1.00	93.82
ATOM	10981	C	ALA	1530	-39.007	32.975	4.210	1.00	89.90
ATOM	10982	O	ALA	1530	-39.534	33.297	3.141	1.00	87.28
ATOM	10983	N	ALA	1531	-39.472	33.349	5.397	1.00	91.50
ATOM	10984	CA	ALA	1531	-40.657	34.182	5.577	1.00	93.93
ATOM	10985	CB	ALA	1531	-41.917	33.396	5.218	1.00	93.93
ATOM	10986	C	ALA	1531	-40.680	34.577	7.050	1.00	97.64
ATOM	10987	O	ALA	1531	-41.224	33.848	7.889	1.00	98.67
ATOM	10988	N	ALA	1532	-40.065	35.723	7.350	1.00	99.68
ATOM	10989	CA	ALA	1532	-39.956	36.258	8.711	1.00	97.54
ATOM	10990	CB	ALA	1532	-41.338	36.356	9.384	1.00	96.06
ATOM	10991	C	ALA	1532	-38.986	35.409	9.547	1.00	99.13
ATOM	10992	O	ALA	1532	-37.804	35.308	9.198	1.00	97.55
ATOM	10993	N	ALA	1533	-39.494	34.767	10.607	1.00	97.83
ATOM	10994	CA	ALA	1533	-38.670	33.936	11.496	1.00	88.34
ATOM	10995	CB	ALA	1533	-38.101	34.792	12.637	1.00	88.43
ATOM	10996	C	ALA	1533	-39.376	32.706	12.074	1.00	81.54

ATOM	10997	O	ALA	1533	-40.579	32.504	11.879	1.00	77.55
ATOM	10998	N	GLU	1534	-38.598	31.889	12.780	1.00	76.90
ATOM	10999	CA	GLU	1534	-39.082	30.672	13.427	1.00	75.82
ATOM	11000	CB	GLU	1534	-38.081	29.529	13.210	1.00	73.43
ATOM	11001	CG	GLU	1534	-37.703	29.291	11.748	1.00	68.50
ATOM	11002	CD	GLU	1534	-36.745	28.124	11.566	1.00	61.66
ATOM	11003	OE1	GLU	1534	-35.693	28.304	10.921	1.00	50.72
ATOM	11004	OE2	GLU	1534	-37.052	27.017	12.051	1.00	60.83
ATOM	11005	C	GLU	1534	-39.234	30.951	14.926	1.00	74.14
ATOM	11006	O	GLU	1534	-38.278	31.353	15.583	1.00	74.44
ATOM	11007	N	MET	1535	-40.422	30.710	15.469	1.00	75.95
ATOM	11008	CA	MET	1535	-40.678	30.977	16.885	1.00	76.11
ATOM	11009	CB	MET	1535	-42.151	31.308	17.103	1.00	83.40
ATOM	11010	CG	MET	1535	-42.584	32.610	16.457	1.00	89.30
ATOM	11011	SD	MET	1535	-44.233	33.087	16.971	1.00	100.00
ATOM	11012	CE	MET	1535	-45.214	31.855	16.063	1.00	100.00
ATOM	11013	C	MET	1535	-40.216	29.946	17.915	1.00	75.28
ATOM	11014	O	MET	1535	-40.544	30.063	19.102	1.00	68.01
ATOM	11015	N	CYS	1536	-39.441	28.956	17.472	1.00	77.49
ATOM	11016	CA	CYS	1536	-38.914	27.924	18.377	1.00	77.08
ATOM	11017	C	CYS	1536	-38.024	28.631	19.395	1.00	72.53
ATOM	11018	O	CYS	1536	-37.827	28.168	20.520	1.00	69.64
ATOM	11019	CB	CYS	1536	-38.072	26.890	17.600	1.00	77.12
ATOM	11020	SG	CYS	1536	-36.394	27.438	17.111	1.00	68.03
ATOM	11021	N	SER	1537	-37.577	29.810	18.990	1.00	74.10
ATOM	11022	CA	SER	1537	-36.686	30.637	19.767	1.00	76.60
ATOM	11023	CB	SER	1537	-36.207	31.830	18.921	1.00	76.92
ATOM	11024	OG	SER	1537	-35.286	31.428	17.914	1.00	70.82
ATOM	11025	C	SER	1537	-37.097	31.110	21.161	1.00	78.57
ATOM	11026	O	SER	1537	-38.049	30.618	21.786	1.00	70.73
ATOM	11027	N	GLY	1538	-36.280	32.055	21.612	1.00	86.09
ATOM	11028	CA	GLY	1538	-36.341	32.706	22.905	1.00	90.20
ATOM	11029	C	GLY	1538	-34.911	33.228	23.008	1.00	93.32
ATOM	11030	O	GLY	1538	-34.645	34.249	23.651	1.00	93.48
ATOM	11031	N	HIS	1539	-34.011	32.498	22.330	1.00	95.42
ATOM	11032	CA	HIS	1539	-32.566	32.754	22.200	1.00	98.00
ATOM	11033	CB	HIS	1539	-32.288	34.240	21.942	1.00	97.02
ATOM	11034	CG	HIS	1539	-32.220	34.589	20.491	1.00	95.42
ATOM	11035	CD2	HIS	1539	-32.301	33.807	19.382	1.00	93.02
ATOM	11036	ND1	HIS	1539	-32.018	35.872	20.037	1.00	95.96
ATOM	11037	CE1	HIS	1539	-31.972	35.870	18.716	1.00	95.73
ATOM	11038	NE2	HIS	1539	-32.141	34.629	18.297	1.00	94.44
ATOM	11039	C	HIS	1539	-31.536	32.162	23.179	1.00	94.79
ATOM	11040	O	HIS	1539	-31.877	31.548	24.194	1.00	92.50
ATOM	11041	N	GLY	1540	-30.264	32.318	22.815	1.00	91.92
ATOM	11042	CA	GLY	1540	-29.178	31.807	23.626	1.00	90.14
ATOM	11043	C	GLY	1540	-28.860	30.366	23.273	1.00	92.00
ATOM	11044	O	GLY	1540	-29.390	29.445	23.899	1.00	93.31
ATOM	11045	N	GLN	1541	-28.027	30.175	22.245	1.00	87.71
ATOM	11046	CA	GLN	1541	-27.608	28.846	21.774	1.00	79.06
ATOM	11047	CB	GLN	1541	-26.729	28.158	22.822	1.00	73.38
ATOM	11048	CG	GLN	1541	-25.327	28.744	22.936	1.00	69.80
ATOM	11049	CD	GLN	1541	-25.309	30.173	23.462	1.00	67.12
ATOM	11050	OE1	GLN	1541	-25.220	30.408	24.674	1.00	47.77
ATOM	11051	NE2	GLN	1541	-25.389	31.134	22.544	1.00	71.44
ATOM	11052	C	GLN	1541	-28.756	27.923	21.361	1.00	76.45
ATOM	11053	O	GLN	1541	-28.590	26.711	21.252	1.00	73.04

ATOM	11054	N	CYS	1542	-29.905	28.526	21.084	1.00	78.76
ATOM	11055	CA	CYS	1542	-31.111	27.813	20.688	1.00	78.00
ATOM	11056	C	CYS	1542	-31.233	27.679	19.165	1.00	78.85
ATOM	11057	O	CYS	1542	-31.305	28.688	18.465	1.00	84.17
ATOM	11058	CB	CYS	1542	-32.318	28.568	21.269	1.00	71.95
ATOM	11059	SG	CYS	1542	-33.984	28.022	20.773	1.00	62.40
ATOM	11060	N	SER	1543	-31.221	26.441	18.657	1.00	81.24
ATOM	11061	CA	SER	1543	-31.367	26.167	17.210	1.00	81.60
ATOM	11062	CB	SER	1543	-30.726	24.819	16.829	1.00	76.80
ATOM	11063	OG	SER	1543	-29.316	24.930	16.684	1.00	70.31
ATOM	11064	C	SER	1543	-32.854	26.206	16.795	1.00	79.98
ATOM	11065	O	SER	1543	-33.557	27.160	17.138	1.00	85.18
ATOM	11066	N	CYS	1544	-33.342	25.212	16.052	1.00	73.50
ATOM	11067	CA	CYS	1544	-34.753	25.246	15.680	1.00	65.86
ATOM	11068	C	CYS	1544	-35.502	23.959	15.347	1.00	64.16
ATOM	11069	O	CYS	1544	-35.034	22.850	15.614	1.00	62.38
ATOM	11070	CB	CYS	1544	-35.013	26.311	14.624	1.00	63.65
ATOM	11071	SG	CYS	1544	-36.400	27.411	15.077	1.00	73.87
ATOM	11072	N	GLY	1545	-36.667	24.137	14.725	1.00	63.64
ATOM	11073	CA	GLY	1545	-37.563	23.037	14.418	1.00	56.45
ATOM	11074	C	GLY	1545	-38.461	23.169	15.632	1.00	59.13
ATOM	11075	O	GLY	1545	-39.691	23.232	15.526	1.00	49.89
ATOM	11076	N	ASP	1546	-37.783	23.326	16.779	1.00	64.47
ATOM	11077	CA	ASP	1546	-38.367	23.515	18.104	1.00	68.28
ATOM	11078	CB	ASP	1546	-39.241	22.326	18.496	1.00	75.15
ATOM	11079	CG	ASP	1546	-40.446	22.746	19.316	1.00	81.70
ATOM	11080	OD1	ASP	1546	-40.665	22.161	20.400	1.00	84.57
ATOM	11081	OD2	ASP	1546	-41.171	23.667	18.871	1.00	85.37
ATOM	11082	C	ASP	1546	-37.335	23.804	19.222	1.00	68.32
ATOM	11083	O	ASP	1546	-37.643	23.609	20.400	1.00	71.99
ATOM	11084	N	CYS	1547	-36.121	24.232	18.847	1.00	62.95
ATOM	11085	CA	CYS	1547	-35.028	24.600	19.785	1.00	56.84
ATOM	11086	C	CYS	1547	-34.099	23.499	20.330	1.00	52.92
ATOM	11087	O	CYS	1547	-34.435	22.817	21.299	1.00	48.11
ATOM	11088	CB	CYS	1547	-35.586	25.435	20.948	1.00	63.33
ATOM	11089	SG	CYS	1547	-34.372	26.386	21.919	1.00	71.10
ATOM	11090	N	LEU	1548	-32.887	23.427	19.764	1.00	51.43
ATOM	11091	CA	LEU	1548	-31.853	22.428	20.121	1.00	47.28
ATOM	11092	CB	LEU	1548	-31.500	21.574	18.904	1.00	39.49
ATOM	11093	CG	LEU	1548	-32.649	21.207	17.982	1.00	39.18
ATOM	11094	CD1	LEU	1548	-32.104	20.728	16.647	1.00	37.18
ATOM	11095	CD2	LEU	1548	-33.528	20.172	18.664	1.00	39.05
ATOM	11096	C	LEU	1548	-30.545	23.051	20.616	1.00	44.84
ATOM	11097	O	LEU	1548	-29.679	23.412	19.810	1.00	39.23
ATOM	11098	N	CYS	1549	-30.359	23.049	21.934	1.00	46.53
ATOM	11099	CA	CYS	1549	-29.177	23.617	22.579	1.00	43.36
ATOM	11100	C	CYS	1549	-27.826	23.188	22.022	1.00	43.77
ATOM	11101	O	CYS	1549	-27.686	22.090	21.477	1.00	45.77
ATOM	11102	CB	CYS	1549	-29.208	23.322	24.071	1.00	41.63
ATOM	11103	SG	CYS	1549	-30.721	23.909	24.880	1.00	54.44
ATOM	11104	N	ASP	1550	-26.839	24.074	22.167	1.00	42.77
ATOM	11105	CA	ASP	1550	-25.478	23.819	21.707	1.00	37.91
ATOM	11106	CB	ASP	1550	-24.774	25.132	21.357	1.00	35.87
ATOM	11107	CG	ASP	1550	-25.273	25.727	20.060	1.00	37.87
ATOM	11108	OD1	ASP	1550	-24.666	25.462	18.998	1.00	33.20
ATOM	11109	OD2	ASP	1550	-26.283	26.452	20.096	1.00	46.85
ATOM	11110	C	ASP	1550	-24.681	23.066	22.761	1.00	35.71

ATOM	11111	O	ASP	1550	-25.177	22.810	23.859	1.00	34.41
ATOM	11112	N	SER	1551	-23.447	22.698	22.423	1.00	35.04
ATOM	11113	CA	SER	1551	-22.598	21.978	23.364	1.00	37.08
ATOM	11114	CB	SER	1551	-21.215	21.664	22.765	1.00	38.03
ATOM	11115	OG	SER	1551	-21.276	20.701	21.722	1.00	37.05
ATOM	11116	C	SER	1551	-22.436	22.795	24.636	1.00	35.29
ATOM	11117	O	SER	1551	-22.392	24.023	24.605	1.00	29.10
ATOM	11118	N	ASP	1552	-22.402	22.098	25.761	1.00	39.72
ATOM	11119	CA	ASP	1552	-22.243	22.738	27.052	1.00	34.88
ATOM	11120	CB	ASP	1552	-20.898	23.463	27.106	1.00	36.39
ATOM	11121	CG	ASP	1552	-19.747	22.572	26.670	1.00	36.47
ATOM	11122	OD1	ASP	1552	-18.773	23.104	26.091	1.00	28.33
ATOM	11123	OD2	ASP	1552	-19.834	21.334	26.882	1.00	36.19
ATOM	11124	C	ASP	1552	-23.407	23.666	27.368	1.00	29.70
ATOM	11125	O	ASP	1552	-23.253	24.667	28.056	1.00	32.99
ATOM	11126	N	TRP	1553	-24.582	23.297	26.879	1.00	32.06
ATOM	11127	CA	TRP	1553	-25.801	24.059	27.108	1.00	34.76
ATOM	11128	CB	TRP	1553	-26.037	25.073	25.987	1.00	37.21
ATOM	11129	CG	TRP	1553	-25.088	26.217	25.959	1.00	31.47
ATOM	11130	CD2	TRP	1553	-24.922	27.218	26.971	1.00	29.13
ATOM	11131	CE2	TRP	1553	-23.949	28.124	26.501	1.00	29.23
ATOM	11132	CE3	TRP	1553	-25.502	27.435	28.230	1.00	28.75
ATOM	11133	CD1	TRP	1553	-24.232	26.542	24.952	1.00	31.10
ATOM	11134	NE1	TRP	1553	-23.545	27.689	25.267	1.00	32.58
ATOM	11135	CZ2	TRP	1553	-23.543	29.240	27.249	1.00	27.40
ATOM	11136	CZ3	TRP	1553	-25.097	28.544	28.972	1.00	21.70
ATOM	11137	CH2	TRP	1553	-24.126	29.432	28.477	1.00	22.67
ATOM	11138	C	TRP	1553	-26.985	23.116	27.141	1.00	33.75
ATOM	11139	O	TRP	1553	-27.233	22.400	26.178	1.00	32.70
ATOM	11140	N	THR	1554	-27.689	23.087	28.261	1.00	40.09
ATOM	11141	CA	THR	1554	-28.877	22.249	28.394	1.00	42.06
ATOM	11142	CB	THR	1554	-28.790	21.311	29.627	1.00	40.74
ATOM	11143	OG1	THR	1554	-28.040	21.936	30.679	1.00	40.55
ATOM	11144	CG2	THR	1554	-28.130	20.008	29.239	1.00	42.82
ATOM	11145	C	THR	1554	-30.086	23.182	28.484	1.00	44.06
ATOM	11146	O	THR	1554	-30.088	24.243	27.865	1.00	43.19
ATOM	11147	N	GLY	1555	-31.126	22.774	29.206	1.00	46.70
ATOM	11148	CA	GLY	1555	-32.297	23.623	29.354	1.00	46.54
ATOM	11149	C	GLY	1555	-33.215	23.841	28.161	1.00	44.47
ATOM	11150	O	GLY	1555	-32.817	23.770	26.994	1.00	38.42
ATOM	11151	N	TYR	1556	-34.466	24.144	28.486	1.00	48.30
ATOM	11152	CA	TYR	1556	-35.514	24.395	27.508	1.00	47.16
ATOM	11153	CB	TYR	1556	-36.824	24.668	28.249	1.00	54.74
ATOM	11154	CG	TYR	1556	-38.031	24.877	27.366	1.00	63.18
ATOM	11155	CD1	TYR	1556	-39.206	25.411	27.891	1.00	65.98
ATOM	11156	CE1	TYR	1556	-40.332	25.592	27.098	1.00	73.47
ATOM	11157	CD2	TYR	1556	-38.010	24.527	26.011	1.00	71.46
ATOM	11158	CE2	TYR	1556	-39.128	24.704	25.204	1.00	77.29
ATOM	11159	CZ	TYR	1556	-40.289	25.239	25.754	1.00	78.18
ATOM	11160	OH	TYR	1556	-41.401	25.427	24.966	1.00	78.51
ATOM	11161	C	TYR	1556	-35.157	25.594	26.650	1.00	44.04
ATOM	11162	O	TYR	1556	-35.230	25.538	25.422	1.00	37.16
ATOM	11163	N	TYR	1557	-34.784	26.680	27.321	1.00	45.21
ATOM	11164	CA	TYR	1557	-34.416	27.928	26.663	1.00	51.19
ATOM	11165	CB	TYR	1557	-34.665	29.105	27.618	1.00	50.30
ATOM	11166	CG	TYR	1557	-36.079	29.183	28.158	1.00	53.72
ATOM	11167	CD1	TYR	1557	-36.434	28.516	29.332	1.00	56.49

ATOM	11168	CE1	TYR	1557	-37.741	28.591	29.841	1.00	62.48
ATOM	11169	CD2	TYR	1557	-37.062	29.932	27.499	1.00	52.16
ATOM	11170	CE2	TYR	1557	-38.372	30.014	27.996	1.00	54.06
ATOM	11171	CZ	TYR	1557	-38.707	29.345	29.171	1.00	58.78
ATOM	11172	OH	TYR	1557	-39.995	29.432	29.682	1.00	50.64
ATOM	11173	C	TYR	1557	-32.949	27.917	26.235	1.00	53.58
ATOM	11174	O	TYR	1557	-32.502	28.782	25.464	1.00	54.09
ATOM	11175	N	CYS	1558	-32.225	26.909	26.725	1.00	53.29
ATOM	11176	CA	CYS	1558	-30.794	26.729	26.474	1.00	51.77
ATOM	11177	C	CYS	1558	-29.962	27.681	27.332	1.00	53.16
ATOM	11178	O	CYS	1558	-28.804	27.962	27.019	1.00	52.23
ATOM	11179	CB	CYS	1558	-30.443	26.915	24.994	1.00	50.63
ATOM	11180	SG	CYS	1558	-31.132	25.639	23.904	1.00	52.04
ATOM	11181	N	ASN	1559	-30.552	28.166	28.423	1.00	49.41
ATOM	11182	CA	ASN	1559	-29.843	29.079	29.290	1.00	43.07
ATOM	11183	CB	ASN	1559	-30.798	30.165	29.869	1.00	49.52
ATOM	11184	CG	ASN	1559	-31.708	29.665	31.006	1.00	55.23
ATOM	11185	OD1	ASN	1559	-31.238	29.073	31.976	1.00	67.30
ATOM	11186	ND2	ASN	1559	-32.999	29.989	30.933	1.00	56.98
ATOM	11187	C	ASN	1559	-28.989	28.358	30.347	1.00	45.35
ATOM	11188	O	ASN	1559	-28.103	28.962	30.955	1.00	52.16
ATOM	11189	N	CYS	1560	-29.180	27.049	30.498	1.00	38.84
ATOM	11190	CA	CYS	1560	-28.414	26.291	31.491	1.00	31.73
ATOM	11191	C	CYS	1560	-27.085	25.733	30.981	1.00	30.50
ATOM	11192	O	CYS	1560	-26.980	25.262	29.849	1.00	27.77
ATOM	11193	CB	CYS	1560	-29.262	25.167	32.082	1.00	29.99
ATOM	11194	SG	CYS	1560	-28.431	24.263	33.424	1.00	42.75
ATOM	11195	N	THR	1561	-26.069	25.788	31.836	1.00	30.05
ATOM	11196	CA	THR	1561	-24.734	25.298	31.501	1.00	25.90
ATOM	11197	CB	THR	1561	-23.622	26.220	32.053	1.00	17.60
ATOM	11198	OG1	THR	1561	-24.190	27.457	32.488	1.00	27.78
ATOM	11199	CG2	THR	1561	-22.599	26.506	30.987	1.00	6.52
ATOM	11200	C	THR	1561	-24.455	23.910	32.062	1.00	25.78
ATOM	11201	O	THR	1561	-25.199	23.380	32.892	1.00	26.51
ATOM	11202	N	THR	1562	-23.360	23.340	31.582	1.00	26.48
ATOM	11203	CA	THR	1562	-22.889	22.034	32.003	1.00	27.34
ATOM	11204	CB	THR	1562	-22.543	21.156	30.785	1.00	29.24
ATOM	11205	OG1	THR	1562	-21.436	21.725	30.075	1.00	40.02
ATOM	11206	CG2	THR	1562	-23.732	21.056	29.851	1.00	27.06
ATOM	11207	C	THR	1562	-21.626	22.284	32.830	1.00	26.90
ATOM	11208	O	THR	1562	-21.100	21.388	33.498	1.00	27.60
ATOM	11209	N	ARG	1563	-21.165	23.530	32.787	1.00	26.40
ATOM	11210	CA	ARG	1563	-19.977	23.956	33.503	1.00	25.28
ATOM	11211	CB	ARG	1563	-19.595	25.379	33.099	1.00	19.71
ATOM	11212	CG	ARG	1563	-19.103	25.492	31.669	1.00	24.07
ATOM	11213	CD	ARG	1563	-18.867	26.934	31.282	1.00	21.32
ATOM	11214	NE	ARG	1563	-17.948	27.580	32.214	1.00	21.14
ATOM	11215	CZ	ARG	1563	-17.609	28.868	32.180	1.00	22.97
ATOM	11216	NH1	ARG	1563	-18.107	29.679	31.249	1.00	20.46
ATOM	11217	NH2	ARG	1563	-16.782	29.351	33.100	1.00	21.52
ATOM	11218	C	ARG	1563	-20.151	23.868	35.010	1.00	26.56
ATOM	11219	O	ARG	1563	-21.165	24.292	35.575	1.00	23.86
ATOM	11220	N	THR	1564	-19.149	23.277	35.645	1.00	30.88
ATOM	11221	CA	THR	1564	-19.125	23.112	37.085	1.00	31.65
ATOM	11222	CB	THR	1564	-19.099	21.624	37.477	1.00	30.83
ATOM	11223	OG1	THR	1564	-17.862	21.035	37.041	1.00	30.37
ATOM	11224	CG2	THR	1564	-20.287	20.886	36.843	1.00	26.51

ATOM	11225	C	THR	1564	-17.865	23.780	37.607	1.00	27.24
ATOM	11226	O	THR	1564	-17.565	23.698	38.797	1.00	28.04
ATOM	11227	N	ASP	1565	-17.131	24.435	36.708	1.00	24.37
ATOM	11228	CA	ASP	1565	-15.903	25.116	37.087	1.00	26.56
ATOM	11229	CB	ASP	1565	-15.102	25.572	35.862	1.00	26.91
ATOM	11230	CG	ASP	1565	-15.633	26.862	35.251	1.00	25.57
ATOM	11231	OD1	ASP	1565	-15.115	27.955	35.591	1.00	19.85
ATOM	11232	OD2	ASP	1565	-16.567	26.776	34.429	1.00	23.90
ATOM	11233	C	ASP	1565	-16.211	26.315	37.947	1.00	28.19
ATOM	11234	O	ASP	1565	-15.497	26.579	38.903	1.00	31.08
ATOM	11235	N	THR	1566	-17.278	27.035	37.605	1.00	29.19
ATOM	11236	CA	THR	1566	-17.666	28.233	38.346	1.00	29.82
ATOM	11237	CB	THR	1566	-18.604	29.139	37.529	1.00	23.24
ATOM	11238	OG1	THR	1566	-19.691	28.372	37.010	1.00	23.40
ATOM	11239	CG2	THR	1566	-17.849	29.745	36.378	1.00	20.33
ATOM	11240	C	THR	1566	-18.295	27.896	39.671	1.00	27.97
ATOM	11241	O	THR	1566	-18.547	28.780	40.491	1.00	27.41
ATOM	11242	N	CYS	1567	-18.552	26.608	39.858	1.00	31.02
ATOM	11243	CA	CYS	1567	-19.129	26.094	41.087	1.00	41.29
ATOM	11244	C	CYS	1567	-18.007	25.662	42.022	1.00	49.50
ATOM	11245	O	CYS	1567	-18.262	25.093	43.082	1.00	50.43
ATOM	11246	CB	CYS	1567	-20.054	24.916	40.789	1.00	38.37
ATOM	11247	SG	CYS	1567	-21.705	25.401	40.200	1.00	46.92
ATOM	11248	N	MET	1568	-16.772	25.968	41.619	1.00	57.82
ATOM	11249	CA	MET	1568	-15.539	25.653	42.358	1.00	63.21
ATOM	11250	CB	MET	1568	-14.345	26.312	41.648	1.00	73.50
ATOM	11251	CG	MET	1568	-14.471	27.851	41.502	1.00	79.22
ATOM	11252	SD	MET	1568	-13.080	28.678	40.656	1.00	88.92
ATOM	11253	CE	MET	1568	-13.804	29.151	39.042	1.00	81.53
ATOM	11254	C	MET	1568	-15.543	26.107	43.820	1.00	65.49
ATOM	11255	O	MET	1568	-16.592	26.311	44.429	1.00	67.46
ATOM	11256	N	SER	1569	-14.347	26.279	44.370	1.00	65.24
ATOM	11257	CA	SER	1569	-14.187	26.724	45.747	1.00	67.03
ATOM	11258	CB	SER	1569	-14.655	25.630	46.719	1.00	68.15
ATOM	11259	OG	SER	1569	-14.731	26.105	48.052	1.00	67.67
ATOM	11260	C	SER	1569	-12.714	27.034	45.973	1.00	67.95
ATOM	11261	O	SER	1569	-11.862	26.625	45.177	1.00	69.46
ATOM	11262	N	SER	1570	-12.423	27.782	47.038	1.00	66.69
ATOM	11263	CA	SER	1570	-11.046	28.139	47.378	1.00	65.32
ATOM	11264	CB	SER	1570	-11.014	29.159	48.537	1.00	66.17
ATOM	11265	OG	SER	1570	-11.760	28.720	49.664	1.00	70.15
ATOM	11266	C	SER	1570	-10.229	26.883	47.718	1.00	64.02
ATOM	11267	O	SER	1570	-9.079	26.747	47.293	1.00	60.84
ATOM	11268	N	ASN	1571	-10.849	25.957	48.455	1.00	64.41
ATOM	11269	CA	ASN	1571	-10.201	24.706	48.839	1.00	61.83
ATOM	11270	CB	ASN	1571	-10.830	24.123	50.117	1.00	59.48
ATOM	11271	CG	ASN	1571	-12.316	23.855	49.981	1.00	57.06
ATOM	11272	OD1	ASN	1571	-13.144	24.696	50.329	1.00	59.04
ATOM	11273	ND2	ASN	1571	-12.663	22.668	49.493	1.00	56.82
ATOM	11274	C	ASN	1571	-10.230	23.687	47.697	1.00	64.43
ATOM	11275	O	ASN	1571	-9.262	22.951	47.486	1.00	69.09
ATOM	11276	N	GLY	1572	-11.338	23.641	46.965	1.00	61.13
ATOM	11277	CA	GLY	1572	-11.426	22.715	45.852	1.00	58.63
ATOM	11278	C	GLY	1572	-12.727	21.956	45.734	1.00	57.00
ATOM	11279	O	GLY	1572	-13.044	21.450	44.657	1.00	55.61
ATOM	11280	N	LEU	1573	-13.481	21.877	46.825	1.00	56.83
ATOM	11281	CA	LEU	1573	-14.744	21.153	46.806	1.00	55.62

ATOM	11282	CB	LEU	1573	-15.082	20.604	48.200	1.00	56.58
ATOM	11283	CG	LEU	1573	-15.502	19.125	48.201	1.00	60.87
ATOM	11284	CD1	LEU	1573	-15.178	18.509	49.535	1.00	62.79
ATOM	11285	CD2	LEU	1573	-16.979	18.940	47.852	1.00	56.00
ATOM	11286	C	LEU	1573	-15.918	21.944	46.222	1.00	50.98
ATOM	11287	O	LEU	1573	-16.082	23.139	46.477	1.00	42.59
ATOM	11288	N	LEU	1574	-16.704	21.246	45.405	1.00	51.59
ATOM	11289	CA	LEU	1574	-17.883	21.789	44.742	1.00	50.16
ATOM	11290	CB	LEU	1574	-18.593	20.655	43.984	1.00	48.45
ATOM	11291	CG	LEU	1574	-19.876	20.898	43.183	1.00	45.62
ATOM	11292	CD1	LEU	1574	-19.567	21.743	41.972	1.00	51.15
ATOM	11293	CD2	LEU	1574	-20.476	19.570	42.744	1.00	42.05
ATOM	11294	C	LEU	1574	-18.829	22.409	45.774	1.00	49.87
ATOM	11295	O	LEU	1574	-19.382	21.703	46.621	1.00	56.41
ATOM	11296	N	CYS	1575	-18.983	23.730	45.709	1.00	43.88
ATOM	11297	CA	CYS	1575	-19.845	24.487	46.621	1.00	42.81
ATOM	11298	C	CYS	1575	-19.412	24.361	48.083	1.00	40.08
ATOM	11299	O	CYS	1575	-20.238	24.457	48.992	1.00	40.79
ATOM	11300	CB	CYS	1575	-21.315	24.058	46.476	1.00	37.37
ATOM	11301	SG	CYS	1575	-22.009	24.153	44.791	1.00	30.90
ATOM	11302	N	SER	1576	-18.113	24.161	48.303	1.00	39.51
ATOM	11303	CA	SER	1576	-17.563	24.008	49.650	1.00	41.50
ATOM	11304	CB	SER	1576	-17.803	25.264	50.483	1.00	41.84
ATOM	11305	OG	SER	1576	-16.871	26.274	50.144	1.00	53.75
ATOM	11306	C	SER	1576	-18.131	22.799	50.375	1.00	40.64
ATOM	11307	O	SER	1576	-17.915	22.619	51.571	1.00	39.43
ATOM	11308	N	GLY	1577	-18.865	21.979	49.635	1.00	47.32
ATOM	11309	CA	GLY	1577	-19.466	20.786	50.198	1.00	46.40
ATOM	11310	C	GLY	1577	-20.746	21.033	50.967	1.00	44.38
ATOM	11311	O	GLY	1577	-21.096	20.245	51.842	1.00	47.74
ATOM	11312	N	ARG	1578	-21.458	22.108	50.650	1.00	38.22
ATOM	11313	CA	ARG	1578	-22.699	22.398	51.355	1.00	41.38
ATOM	11314	CB	ARG	1578	-22.531	23.606	52.268	1.00	44.02
ATOM	11315	CG	ARG	1578	-21.531	23.400	53.374	1.00	45.75
ATOM	11316	CD	ARG	1578	-21.710	24.447	54.434	1.00	44.42
ATOM	11317	NE	ARG	1578	-20.862	24.174	55.583	1.00	50.92
ATOM	11318	CZ	ARG	1578	-19.709	24.792	55.814	1.00	55.14
ATOM	11319	NH1	ARG	1578	-19.275	25.725	54.968	1.00	50.53
ATOM	11320	NH2	ARG	1578	-18.991	24.468	56.884	1.00	57.64
ATOM	11321	C	ARG	1578	-23.863	22.628	50.412	1.00	44.43
ATOM	11322	O	ARG	1578	-24.997	22.873	50.847	1.00	47.61
ATOM	11323	N	GLY	1579	-23.574	22.540	49.119	1.00	40.25
ATOM	11324	CA	GLY	1579	-24.596	22.734	48.110	1.00	35.60
ATOM	11325	C	GLY	1579	-24.212	21.991	46.855	1.00	30.54
ATOM	11326	O	GLY	1579	-23.133	21.402	46.785	1.00	27.14
ATOM	11327	N	LYS	1580	-25.084	22.043	45.858	1.00	33.03
ATOM	11328	CA	LYS	1580	-24.857	21.363	44.589	1.00	41.25
ATOM	11329	CB	LYS	1580	-25.965	20.340	44.360	1.00	46.48
ATOM	11330	CG	LYS	1580	-27.346	20.951	44.471	1.00	50.97
ATOM	11331	CD	LYS	1580	-28.442	19.926	44.346	1.00	53.03
ATOM	11332	CE	LYS	1580	-29.714	20.606	43.880	1.00	54.73
ATOM	11333	NZ	LYS	1580	-29.489	21.277	42.560	1.00	55.35
ATOM	11334	C	LYS	1580	-24.823	22.367	43.437	1.00	41.66
ATOM	11335	O	LYS	1580	-25.458	23.422	43.508	1.00	45.12
ATOM	11336	N	CYS	1581	-24.086	22.034	42.380	1.00	37.30
ATOM	11337	CA	CYS	1581	-23.966	22.923	41.233	1.00	29.33
ATOM	11338	C	CYS	1581	-25.191	22.839	40.357	1.00	24.60

ATOM	11339	O	CYS	1581	-25.568	21.763	39.918	1.00	31.25
ATOM	11340	CB	CYS	1581	-22.733	22.576	40.415	1.00	31.89
ATOM	11341	SG	CYS	1581	-22.331	23.797	39.129	1.00	46.93
ATOM	11342	N	GLU	1582	-25.813	23.979	40.099	1.00	25.06
ATOM	11343	CA	GLU	1582	-27.004	24.016	39.270	1.00	26.78
ATOM	11344	CB	GLU	1582	-28.235	24.255	40.145	1.00	40.89
ATOM	11345	CG	GLU	1582	-29.549	23.729	39.579	1.00	59.20
ATOM	11346	CD	GLU	1582	-30.720	23.904	40.546	1.00	69.69
ATOM	11347	OE1	GLU	1582	-30.884	25.010	41.107	1.00	75.85
ATOM	11348	OE2	GLU	1582	-31.484	22.935	40.749	1.00	79.23
ATOM	11349	C	GLU	1582	-26.826	25.119	38.229	1.00	19.49
ATOM	11350	O	GLU	1582	-26.948	26.311	38.527	1.00	15.43
ATOM	11351	N	CYS	1583	-26.478	24.693	37.020	1.00	18.67
ATOM	11352	CA	CYS	1583	-26.228	25.574	35.889	1.00	24.41
ATOM	11353	C	CYS	1583	-25.080	26.544	36.182	1.00	27.51
ATOM	11354	O	CYS	1583	-25.218	27.760	36.037	1.00	27.63
ATOM	11355	CB	CYS	1583	-27.502	26.330	35.500	1.00	25.28
ATOM	11356	SG	CYS	1583	-28.937	25.273	35.120	1.00	35.57
ATOM	11357	N	GLY	1584	-23.946	25.995	36.608	1.00	31.40
ATOM	11358	CA	GLY	1584	-22.792	26.823	36.923	1.00	34.28
ATOM	11359	C	GLY	1584	-22.977	27.721	38.138	1.00	35.17
ATOM	11360	O	GLY	1584	-22.180	28.628	38.383	1.00	40.85
ATOM	11361	N	SER	1585	-24.037	27.488	38.896	1.00	33.30
ATOM	11362	CA	SER	1585	-24.294	28.289	40.077	1.00	36.30
ATOM	11363	CB	SER	1585	-25.359	29.349	39.797	1.00	36.76
ATOM	11364	OG	SER	1585	-24.880	30.327	38.893	1.00	45.35
ATOM	11365	C	SER	1585	-24.759	27.375	41.176	1.00	38.05
ATOM	11366	O	SER	1585	-25.670	26.573	40.978	1.00	37.26
ATOM	11367	N	CYS	1586	-24.105	27.485	42.328	1.00	39.62
ATOM	11368	CA	CYS	1586	-24.441	26.672	43.487	1.00	42.24
ATOM	11369	C	CYS	1586	-25.800	27.026	44.066	1.00	43.47
ATOM	11370	O	CYS	1586	-26.337	28.108	43.834	1.00	45.90
ATOM	11371	CB	CYS	1586	-23.397	26.845	44.594	1.00	40.25
ATOM	11372	SG	CYS	1586	-21.779	26.104	44.256	1.00	43.08
ATOM	11373	N	VAL	1587	-26.352	26.073	44.803	1.00	43.24
ATOM	11374	CA	VAL	1587	-27.624	26.222	45.487	1.00	44.81
ATOM	11375	CB	VAL	1587	-28.812	25.633	44.678	1.00	45.75
ATOM	11376	CG1	VAL	1587	-29.109	26.516	43.473	1.00	45.52
ATOM	11377	CG2	VAL	1587	-28.504	24.225	44.208	1.00	52.23
ATOM	11378	C	VAL	1587	-27.385	25.477	46.793	1.00	48.32
ATOM	11379	O	VAL	1587	-27.397	24.241	46.849	1.00	49.61
ATOM	11380	N	CYS	1588	-27.050	26.250	47.819	1.00	49.33
ATOM	11381	CA	CYS	1588	-26.745	25.711	49.130	1.00	50.98
ATOM	11382	C	CYS	1588	-27.877	24.911	49.750	1.00	58.06
ATOM	11383	O	CYS	1588	-28.978	25.430	49.956	1.00	57.28
ATOM	11384	CB	CYS	1588	-26.333	26.841	50.069	1.00	45.71
ATOM	11385	SG	CYS	1588	-25.191	28.043	49.312	1.00	52.62
ATOM	11386	N	ILE	1589	-27.615	23.626	49.981	1.00	59.51
ATOM	11387	CA	ILE	1589	-28.578	22.739	50.623	1.00	63.78
ATOM	11388	CB	ILE	1589	-28.154	21.273	50.463	1.00	65.95
ATOM	11389	CG2	ILE	1589	-29.175	20.356	51.116	1.00	72.05
ATOM	11390	CG1	ILE	1589	-28.015	20.939	48.975	1.00	65.75
ATOM	11391	CD1	ILE	1589	-27.437	19.567	48.701	1.00	70.84
ATOM	11392	C	ILE	1589	-28.425	23.201	52.066	1.00	67.32
ATOM	11393	O	ILE	1589	-27.789	22.552	52.894	1.00	66.21
ATOM	11394	N	GLN	1590	-28.994	24.379	52.302	1.00	70.23
ATOM	11395	CA	GLN	1590	-28.944	25.145	53.550	1.00	77.92

ATOM	11396	CB	GLN	1590	-30.080	26.196	53.587	1.00	82.44
ATOM	11397	CG	GLN	1590	-29.734	27.541	52.911	1.00	83.72
ATOM	11398	CD	GLN	1590	-30.678	28.680	53.298	1.00	86.77
ATOM	11399	OE1	GLN	1590	-30.959	28.901	54.479	1.00	84.82
ATOM	11400	NE2	GLN	1590	-31.152	29.421	52.301	1.00	87.37
ATOM	11401	C	GLN	1590	-28.691	24.633	54.971	1.00	68.68
ATOM	11402	O	GLN	1590	-29.626	24.434	55.754	1.00	72.37
ATOM	11403	N	PRO	1591	-27.411	24.412	55.327	1.00	59.35
ATOM	11404	CD	PRO	1591	-26.195	24.253	54.513	1.00	49.47
ATOM	11405	CA	PRO	1591	-27.169	23.962	56.698	1.00	55.65
ATOM	11406	CB	PRO	1591	-25.780	23.306	56.607	1.00	51.93
ATOM	11407	CG	PRO	1591	-25.581	23.046	55.137	1.00	48.59
ATOM	11408	C	PRO	1591	-27.092	25.304	57.472	1.00	54.74
ATOM	11409	O	PRO	1591	-26.526	25.381	58.564	1.00	56.13
ATOM	11410	N	GLY	1592	-27.665	26.354	56.863	1.00	50.52
ATOM	11411	CA	GLY	1592	-27.647	27.709	57.404	1.00	46.51
ATOM	11412	C	GLY	1592	-26.578	28.515	56.662	1.00	42.51
ATOM	11413	O	GLY	1592	-26.076	29.544	57.142	1.00	33.63
ATOM	11414	N	SER	1593	-26.269	28.047	55.452	1.00	41.26
ATOM	11415	CA	SER	1593	-25.237	28.636	54.605	1.00	38.58
ATOM	11416	CB	SER	1593	-24.320	27.542	54.078	1.00	44.58
ATOM	11417	OG	SER	1593	-24.984	26.789	53.071	1.00	52.20
ATOM	11418	C	SER	1593	-25.725	29.411	53.402	1.00	35.85
ATOM	11419	O	SER	1593	-26.864	29.259	52.948	1.00	37.71
ATOM	11420	N	TYR	1594	-24.762	30.112	52.807	1.00	25.10
ATOM	11421	CA	TYR	1594	-24.954	30.953	51.633	1.00	14.23
ATOM	11422	CB	TYR	1594	-25.693	32.238	52.022	1.00	10.39
ATOM	11423	CG	TYR	1594	-25.031	33.019	53.143	1.00	2.00
ATOM	11424	CD1	TYR	1594	-24.160	34.065	52.868	1.00	2.00
ATOM	11425	CE1	TYR	1594	-23.552	34.778	53.876	1.00	2.00
ATOM	11426	CD2	TYR	1594	-25.277	32.706	54.475	1.00	2.00
ATOM	11427	CE2	TYR	1594	-24.672	33.415	55.495	1.00	9.15
ATOM	11428	CZ	TYR	1594	-23.807	34.455	55.188	1.00	5.51
ATOM	11429	OH	TYR	1594	-23.194	35.164	56.198	1.00	2.00
ATOM	11430	C	TYR	1594	-23.562	31.292	51.102	1.00	11.81
ATOM	11431	O	TYR	1594	-22.563	30.762	51.589	1.00	15.99
ATOM	11432	N	GLY	1595	-23.492	32.200	50.134	1.00	3.83
ATOM	11433	CA	GLY	1595	-22.213	32.569	49.577	1.00	4.01
ATOM	11434	C	GLY	1595	-22.134	32.095	48.145	1.00	14.65
ATOM	11435	O	GLY	1595	-22.848	31.174	47.753	1.00	19.31
ATOM	11436	N	ASP	1596	-21.245	32.715	47.375	1.00	20.73
ATOM	11437	CA	ASP	1596	-21.049	32.397	45.968	1.00	22.96
ATOM	11438	CB	ASP	1596	-19.842	33.166	45.449	1.00	33.75
ATOM	11439	CG	ASP	1596	-20.075	33.772	44.081	1.00	42.14
ATOM	11440	OD1	ASP	1596	-21.203	33.678	43.545	1.00	45.74
ATOM	11441	OD2	ASP	1596	-19.112	34.351	43.539	1.00	52.52
ATOM	11442	C	ASP	1596	-20.871	30.900	45.733	1.00	22.88
ATOM	11443	O	ASP	1596	-21.395	30.344	44.767	1.00	21.23
ATOM	11444	N	THR	1597	-20.124	30.251	46.620	1.00	24.22
ATOM	11445	CA	THR	1597	-19.903	28.808	46.534	1.00	30.82
ATOM	11446	CB	THR	1597	-18.459	28.458	46.106	1.00	33.66
ATOM	11447	OG1	THR	1597	-17.551	28.801	47.159	1.00	41.01
ATOM	11448	CG2	THR	1597	-18.071	29.220	44.841	1.00	42.10
ATOM	11449	C	THR	1597	-20.170	28.211	47.913	1.00	25.84
ATOM	11450	O	THR	1597	-19.370	27.431	48.427	1.00	24.06
ATOM	11451	N	CYS	1598	-21.268	28.643	48.527	1.00	23.74
ATOM	11452	CA	CYS	1598	-21.686	28.180	49.848	1.00	18.30

ATOM	11453	C	CYS	1598	-20.541	28.088	50.839	1.00	19.41
ATOM	11454	O	CYS	1598	-20.600	27.346	51.822	1.00	20.27
ATOM	11455	CB	CYS	1598	-22.417	26.850	49.733	1.00	16.45
ATOM	11456	SG	CYS	1598	-23.720	26.918	48.467	1.00	33.60
ATOM	11457	N	GLU	1599	-19.498	28.865	50.565	1.00	16.63
ATOM	11458	CA	GLU	1599	-18.321	28.920	51.413	1.00	21.39
ATOM	11459	CB	GLU	1599	-17.182	29.642	50.691	1.00	15.67
ATOM	11460	CG	GLU	1599	-17.423	31.123	50.453	1.00	19.69
ATOM	11461	CD	GLU	1599	-18.250	31.391	49.216	1.00	26.79
ATOM	11462	OE1	GLU	1599	-17.669	31.787	48.182	1.00	29.07
ATOM	11463	OE2	GLU	1599	-19.479	31.205	49.272	1.00	33.88
ATOM	11464	C	GLU	1599	-18.616	29.634	52.737	1.00	22.81
ATOM	11465	O	GLU	1599	-17.886	29.455	53.714	1.00	25.46
ATOM	11466	N	LYS	1600	-19.669	30.459	52.745	1.00	22.81
ATOM	11467	CA	LYS	1600	-20.071	31.223	53.927	1.00	16.16
ATOM	11468	CB	LYS	1600	-20.570	32.618	53.539	1.00	19.84
ATOM	11469	CG	LYS	1600	-19.489	33.578	53.061	1.00	28.10
ATOM	11470	CD	LYS	1600	-20.112	34.888	52.607	1.00	38.03
ATOM	11471	CE	LYS	1600	-19.117	35.809	51.920	1.00	38.48
ATOM	11472	NZ	LYS	1600	-19.810	36.976	51.297	1.00	35.67
ATOM	11473	C	LYS	1600	-21.133	30.529	54.749	1.00	9.79
ATOM	11474	O	LYS	1600	-22.168	30.112	54.230	1.00	5.10
ATOM	11475	N	CYS	1601	-20.861	30.419	56.041	1.00	10.09
ATOM	11476	CA	CYS	1601	-21.775	29.783	56.972	1.00	20.82
ATOM	11477	C	CYS	1601	-21.279	30.036	58.387	1.00	26.41
ATOM	11478	O	CYS	1601	-20.735	29.139	59.044	1.00	25.91
ATOM	11479	CB	CYS	1601	-21.879	28.278	56.713	1.00	19.49
ATOM	11480	SG	CYS	1601	-23.329	27.554	57.537	1.00	38.74
ATOM	11481	N	PRO	1602	-21.441	31.281	58.864	1.00	25.75
ATOM	11482	CD	PRO	1602	-22.055	32.385	58.107	1.00	23.41
ATOM	11483	CA	PRO	1602	-21.034	31.732	60.195	1.00	21.79
ATOM	11484	CB	PRO	1602	-21.325	33.228	60.140	1.00	26.04
ATOM	11485	CG	PRO	1602	-22.488	33.308	59.198	1.00	26.74
ATOM	11486	C	PRO	1602	-21.789	31.047	61.331	1.00	20.64
ATOM	11487	O	PRO	1602	-21.206	30.768	62.377	1.00	21.77
ATOM	11488	N	THR	1603	-23.079	30.789	61.123	1.00	27.13
ATOM	11489	CA	THR	1603	-23.921	30.126	62.125	1.00	26.02
ATOM	11490	CB	THR	1603	-25.415	30.464	61.935	1.00	21.84
ATOM	11491	OG1	THR	1603	-25.700	30.667	60.545	1.00	23.57
ATOM	11492	CG2	THR	1603	-25.757	31.703	62.690	1.00	18.80
ATOM	11493	C	THR	1603	-23.731	28.606	62.141	1.00	27.99
ATOM	11494	O	THR	1603	-24.330	27.902	62.956	1.00	30.40
ATOM	11495	N	CYS	1604	-22.906	28.109	61.221	1.00	30.86
ATOM	11496	CA	CYS	1604	-22.600	26.689	61.127	1.00	30.21
ATOM	11497	C	CYS	1604	-21.814	26.296	62.364	1.00	32.50
ATOM	11498	O	CYS	1604	-20.964	27.063	62.838	1.00	30.48
ATOM	11499	CB	CYS	1604	-21.745	26.417	59.899	1.00	31.53
ATOM	11500	SG	CYS	1604	-22.667	25.859	58.441	1.00	46.97
ATOM	11501	N	PRO	1605	-22.036	25.068	62.861	1.00	32.25
ATOM	11502	CD	PRO	1605	-22.828	24.039	62.172	1.00	28.86
ATOM	11503	CA	PRO	1605	-21.383	24.503	64.050	1.00	33.11
ATOM	11504	CB	PRO	1605	-21.895	23.070	64.070	1.00	26.49
ATOM	11505	CG	PRO	1605	-22.148	22.790	62.618	1.00	29.80
ATOM	11506	C	PRO	1605	-19.864	24.559	64.001	1.00	39.95
ATOM	11507	O	PRO	1605	-19.266	24.566	62.916	1.00	42.14
ATOM	11508	N	ASP	1606	-19.253	24.614	65.187	1.00	43.61
ATOM	11509	CA	ASP	1606	-17.797	24.686	65.331	1.00	46.05

ATOM	11510	CB	ASP	1606	-17.396	24.729	66.826	1.00	48.87
ATOM	11511	CG	ASP	1606	-17.967	23.554	67.648	1.00	50.89
ATOM	11512	OD1	ASP	1606	-17.760	23.520	68.887	1.00	42.04
ATOM	11513	OD2	ASP	1606	-18.624	22.665	67.069	1.00	53.94
ATOM	11514	C	ASP	1606	-17.087	23.537	64.619	1.00	47.08
ATOM	11515	O	ASP	1606	-17.716	22.548	64.233	1.00	53.09
ATOM	11516	N	ALA	1607	-15.781	23.681	64.421	1.00	42.64
ATOM	11517	CA	ALA	1607	-14.998	22.642	63.769	1.00	37.30
ATOM	11518	CB	ALA	1607	-13.586	23.129	63.563	1.00	41.02
ATOM	11519	C	ALA	1607	-15.002	21.362	64.617	1.00	37.45
ATOM	11520	O	ALA	1607	-15.035	20.249	64.088	1.00	35.33
ATOM	11521	N	CYS	1608	-15.025	21.547	65.935	1.00	33.64
ATOM	11522	CA	CYS	1608	-15.028	20.462	66.909	1.00	31.05
ATOM	11523	C	CYS	1608	-16.211	19.520	66.801	1.00	30.07
ATOM	11524	O	CYS	1608	-16.464	18.749	67.724	1.00	37.47
ATOM	11525	CB	CYS	1608	-15.021	21.032	68.325	1.00	38.04
ATOM	11526	SG	CYS	1608	-13.597	22.091	68.730	1.00	61.18
ATOM	11527	N	THR	1609	-16.961	19.608	65.709	1.00	26.38
ATOM	11528	CA	THR	1609	-18.123	18.752	65.511	1.00	29.45
ATOM	11529	CB	THR	1609	-19.436	19.568	65.490	1.00	28.38
ATOM	11530	OG1	THR	1609	-19.568	20.300	66.711	1.00	26.04
ATOM	11531	CG2	THR	1609	-20.631	18.652	65.368	1.00	35.55
ATOM	11532	C	THR	1609	-17.968	18.005	64.198	1.00	33.56
ATOM	11533	O	THR	1609	-18.553	16.947	63.989	1.00	31.08
ATOM	11534	N	PHE	1610	-17.185	18.582	63.302	1.00	38.59
ATOM	11535	CA	PHE	1610	-16.936	17.968	62.014	1.00	46.66
ATOM	11536	CB	PHE	1610	-16.457	19.029	61.019	1.00	57.66
ATOM	11537	CG	PHE	1610	-17.565	19.706	60.255	1.00	66.60
ATOM	11538	CD1	PHE	1610	-17.378	20.058	58.912	1.00	72.79
ATOM	11539	CD2	PHE	1610	-18.788	19.990	60.861	1.00	67.55
ATOM	11540	CE1	PHE	1610	-18.393	20.684	58.179	1.00	74.78
ATOM	11541	CE2	PHE	1610	-19.814	20.616	60.140	1.00	72.67
ATOM	11542	CZ	PHE	1610	-19.616	20.964	58.795	1.00	76.66
ATOM	11543	C	PHE	1610	-15.851	16.917	62.197	1.00	46.34
ATOM	11544	O	PHE	1610	-15.992	15.773	61.767	1.00	46.63
ATOM	11545	N	LYS	1611	-14.775	17.333	62.857	1.00	45.12
ATOM	11546	CA	LYS	1611	-13.617	16.491	63.120	1.00	41.92
ATOM	11547	CB	LYS	1611	-12.454	17.345	63.645	1.00	41.09
ATOM	11548	CG	LYS	1611	-12.070	18.516	62.741	1.00	38.68
ATOM	11549	CD	LYS	1611	-11.796	18.053	61.313	1.00	42.78
ATOM	11550	CE	LYS	1611	-11.616	19.232	60.370	1.00	43.43
ATOM	11551	NZ	LYS	1611	-11.710	18.832	58.934	1.00	41.27
ATOM	11552	C	LYS	1611	-13.954	15.400	64.118	1.00	41.89
ATOM	11553	O	LYS	1611	-13.370	14.323	64.089	1.00	46.93
ATOM	11554	N	LYS	1612	-14.896	15.696	65.007	1.00	41.16
ATOM	11555	CA	LYS	1612	-15.347	14.754	66.024	1.00	37.54
ATOM	11556	CB	LYS	1612	-16.628	15.288	66.670	1.00	41.55
ATOM	11557	CG	LYS	1612	-17.320	14.381	67.660	1.00	43.21
ATOM	11558	CD	LYS	1612	-18.694	14.966	67.995	1.00	53.46
ATOM	11559	CE	LYS	1612	-19.480	14.104	68.982	1.00	59.94
ATOM	11560	NZ	LYS	1612	-19.732	12.716	68.487	1.00	61.85
ATOM	11561	C	LYS	1612	-15.599	13.401	65.373	1.00	34.91
ATOM	11562	O	LYS	1612	-14.891	12.441	65.651	1.00	35.55
ATOM	11563	N	GLU	1613	-16.528	13.366	64.424	1.00	37.98
ATOM	11564	CA	GLU	1613	-16.883	12.142	63.714	1.00	40.03
ATOM	11565	CB	GLU	1613	-17.858	12.451	62.590	1.00	41.94
ATOM	11566	CG	GLU	1613	-19.168	13.039	63.038	1.00	55.72

ATOM	11567	CD	GLU	1613	-20.031	13.440	61.859	1.00	66.69
ATOM	11568	OE1	GLU	1613	-19.909	14.597	61.394	1.00	68.80
ATOM	11569	OE2	GLU	1613	-20.821	12.594	61.384	1.00	71.67
ATOM	11570	C	GLU	1613	-15.687	11.395	63.144	1.00	37.80
ATOM	11571	O	GLU	1613	-15.751	10.178	62.929	1.00	42.66
ATOM	11572	N	CYS	1614	-14.610	12.128	62.865	1.00	31.11
ATOM	11573	CA	CYS	1614	-13.394	11.520	62.337	1.00	29.88
ATOM	11574	C	CYS	1614	-12.610	10.770	63.396	1.00	22.85
ATOM	11575	O	CYS	1614	-12.272	9.609	63.208	1.00	24.42
ATOM	11576	CB	CYS	1614	-12.523	12.558	61.668	1.00	23.78
ATOM	11577	SG	CYS	1614	-13.159	12.886	60.013	1.00	35.89
ATOM	11578	N	VAL	1615	-12.338	11.416	64.519	1.00	15.44
ATOM	11579	CA	VAL	1615	-11.617	10.734	65.575	1.00	15.54
ATOM	11580	CB	VAL	1615	-11.295	11.684	66.765	1.00	9.92
ATOM	11581	CG1	VAL	1615	-10.738	12.995	66.235	1.00	4.86
ATOM	11582	CG2	VAL	1615	-12.505	11.940	67.613	1.00	8.03
ATOM	11583	C	VAL	1615	-12.435	9.505	65.999	1.00	18.82
ATOM	11584	O	VAL	1615	-11.878	8.447	66.270	1.00	17.77
ATOM	11585	N	GLU	1616	-13.761	9.635	65.954	1.00	24.17
ATOM	11586	CA	GLU	1616	-14.671	8.543	66.304	1.00	25.45
ATOM	11587	CB	GLU	1616	-16.096	9.047	66.498	1.00	12.69
ATOM	11588	CG	GLU	1616	-16.394	9.458	67.915	1.00	27.78
ATOM	11589	CD	GLU	1616	-16.459	8.280	68.886	1.00	40.34
ATOM	11590	OE1	GLU	1616	-17.473	7.544	68.864	1.00	43.47
ATOM	11591	OE2	GLU	1616	-15.519	8.109	69.697	1.00	42.38
ATOM	11592	C	GLU	1616	-14.655	7.467	65.238	1.00	24.13
ATOM	11593	O	GLU	1616	-15.111	6.349	65.454	1.00	29.90
ATOM	11594	N	CYS	1617	-14.172	7.826	64.064	1.00	25.82
ATOM	11595	CA	CYS	1617	-14.090	6.860	63.007	1.00	31.58
ATOM	11596	C	CYS	1617	-12.668	6.310	62.993	1.00	32.49
ATOM	11597	O	CYS	1617	-12.440	5.127	63.235	1.00	39.49
ATOM	11598	CB	CYS	1617	-14.371	7.496	61.651	1.00	32.94
ATOM	11599	SG	CYS	1617	-13.233	6.737	60.455	1.00	46.73
ATOM	11600	N	LYS	1618	-11.719	7.191	62.687	1.00	27.86
ATOM	11601	CA	LYS	1618	-10.313	6.842	62.576	1.00	16.84
ATOM	11602	CB	LYS	1618	-9.499	8.056	62.140	1.00	13.29
ATOM	11603	CG	LYS	1618	-9.990	8.691	60.859	1.00	9.93
ATOM	11604	CD	LYS	1618	-9.787	7.777	59.678	1.00	22.63
ATOM	11605	CE	LYS	1618	-8.315	7.662	59.344	1.00	33.36
ATOM	11606	NZ	LYS	1618	-7.708	9.012	59.129	1.00	49.84
ATOM	11607	C	LYS	1618	-9.712	6.253	63.824	1.00	15.07
ATOM	11608	O	LYS	1618	-9.053	5.226	63.759	1.00	24.10
ATOM	11609	N	LYS	1619	-9.935	6.884	64.966	1.00	14.23
ATOM	11610	CA	LYS	1619	-9.361	6.364	66.201	1.00	15.63
ATOM	11611	CB	LYS	1619	-8.779	7.502	67.040	1.00	7.74
ATOM	11612	CG	LYS	1619	-7.505	8.098	66.453	1.00	8.32
ATOM	11613	CD	LYS	1619	-6.581	7.013	65.898	1.00	5.79
ATOM	11614	CE	LYS	1619	-5.129	7.451	65.859	1.00	9.36
ATOM	11615	NZ	LYS	1619	-4.513	7.453	67.221	1.00	9.38
ATOM	11616	C	LYS	1619	-10.251	5.466	67.058	1.00	17.39
ATOM	11617	O	LYS	1619	-9.797	4.929	68.071	1.00	22.44
ATOM	11618	N	PHE	1620	-11.497	5.267	66.644	1.00	12.93
ATOM	11619	CA	PHE	1620	-12.409	4.443	67.421	1.00	11.08
ATOM	11620	CB	PHE	1620	-13.361	5.307	68.234	1.00	10.82
ATOM	11621	CG	PHE	1620	-12.756	5.840	69.483	1.00	13.01
ATOM	11622	CD1	PHE	1620	-12.393	7.175	69.580	1.00	21.34
ATOM	11623	CD2	PHE	1620	-12.541	5.009	70.563	1.00	16.22

ATOM	11624	CE1	PHE	1620	-11.822	7.676	70.744	1.00	22.40
ATOM	11625	CE2	PHE	1620	-11.973	5.498	71.730	1.00	21.70
ATOM	11626	CZ	PHE	1620	-11.612	6.831	71.823	1.00	17.06
ATOM	11627	C	PHE	1620	-13.203	3.424	66.657	1.00	12.60
ATOM	11628	O	PHE	1620	-13.943	2.661	67.260	1.00	22.70
ATOM	11629	N	ASP	1621	-13.093	3.440	65.335	1.00	16.17
ATOM	11630	CA	ASP	1621	-13.785	2.476	64.490	1.00	23.57
ATOM	11631	CB	ASP	1621	-13.455	1.057	64.975	1.00	32.65
ATOM	11632	CG	ASP	1621	-13.685	-0.001	63.925	1.00	37.37
ATOM	11633	OD1	ASP	1621	-14.287	-1.042	64.262	1.00	45.93
ATOM	11634	OD2	ASP	1621	-13.241	0.188	62.776	1.00	42.44
ATOM	11635	C	ASP	1621	-15.303	2.672	64.390	1.00	29.14
ATOM	11636	O	ASP	1621	-15.914	2.211	63.431	1.00	32.22
ATOM	11637	N	ARG	1622	-15.924	3.341	65.355	1.00	28.34
ATOM	11638	CA	ARG	1622	-17.365	3.530	65.258	1.00	37.28
ATOM	11639	CB	ARG	1622	-18.061	3.323	66.602	1.00	35.79
ATOM	11640	CG	ARG	1622	-17.612	4.229	67.714	1.00	34.46
ATOM	11641	CD	ARG	1622	-16.507	3.585	68.526	1.00	29.47
ATOM	11642	NE	ARG	1622	-16.094	4.439	69.631	1.00	28.84
ATOM	11643	CZ	ARG	1622	-16.660	4.425	70.831	1.00	29.72
ATOM	11644	NH1	ARG	1622	-17.658	3.588	71.076	1.00	22.22
ATOM	11645	NH2	ARG	1622	-16.257	5.276	71.769	1.00	32.51
ATOM	11646	C	ARG	1622	-17.808	4.845	64.628	1.00	48.14
ATOM	11647	O	ARG	1622	-17.027	5.529	63.950	1.00	49.46
ATOM	11648	N	GLU	1623	-19.085	5.163	64.840	1.00	55.97
ATOM	11649	CA	GLU	1623	-19.716	6.368	64.307	1.00	60.83
ATOM	11650	CB	GLU	1623	-18.886	7.622	64.637	1.00	71.69
ATOM	11651	CG	GLU	1623	-19.395	8.378	65.863	1.00	87.65
ATOM	11652	CD	GLU	1623	-19.462	9.887	65.655	1.00	93.55
ATOM	11653	OE1	GLU	1623	-19.795	10.331	64.534	1.00	96.91
ATOM	11654	OE2	GLU	1623	-19.197	10.633	66.622	1.00	94.41
ATOM	11655	C	GLU	1623	-19.949	6.273	62.803	1.00	55.17
ATOM	11656	O	GLU	1623	-19.631	5.254	62.180	1.00	51.23
ATOM	11657	N	PRO	1624	-20.632	7.279	62.227	1.00	51.45
ATOM	11658	CD	PRO	1624	-21.484	8.262	62.917	1.00	50.75
ATOM	11659	CA	PRO	1624	-20.902	7.301	60.790	1.00	52.04
ATOM	11660	CB	PRO	1624	-21.773	8.530	60.638	1.00	51.42
ATOM	11661	CG	PRO	1624	-22.555	8.511	61.907	1.00	54.86
ATOM	11662	C	PRO	1624	-19.587	7.446	60.041	1.00	54.47
ATOM	11663	O	PRO	1624	-18.570	7.817	60.637	1.00	57.42
ATOM	11664	N	TYR	1625	-19.638	7.201	58.735	1.00	57.13
ATOM	11665	CA	TYR	1625	-18.472	7.213	57.841	1.00	64.13
ATOM	11666	CB	TYR	1625	-17.390	8.208	58.274	1.00	73.52
ATOM	11667	CG	TYR	1625	-17.868	9.636	58.294	1.00	80.98
ATOM	11668	CD1	TYR	1625	-18.644	10.141	57.249	1.00	86.30
ATOM	11669	CE1	TYR	1625	-19.148	11.435	57.290	1.00	92.23
ATOM	11670	CD2	TYR	1625	-17.600	10.462	59.380	1.00	81.71
ATOM	11671	CE2	TYR	1625	-18.096	11.755	59.431	1.00	88.05
ATOM	11672	CZ	TYR	1625	-18.873	12.238	58.387	1.00	93.24
ATOM	11673	OH	TYR	1625	-19.389	13.517	58.447	1.00	99.29
ATOM	11674	C	TYR	1625	-17.952	5.790	57.895	1.00	61.26
ATOM	11675	O	TYR	1625	-17.546	5.225	56.879	1.00	63.25
ATOM	11676	N	MET	1626	-17.956	5.231	59.103	1.00	56.54
ATOM	11677	CA	MET	1626	-17.572	3.847	59.326	1.00	51.42
ATOM	11678	CB	MET	1626	-17.418	3.568	60.828	1.00	53.00
ATOM	11679	CG	MET	1626	-17.643	2.100	61.238	1.00	48.35
ATOM	11680	SD	MET	1626	-16.218	0.989	61.007	1.00	47.78

ATOM	11681	CE	MET	1626	-16.497	0.292	59.336	1.00	52.40
ATOM	11682	C	MET	1626	-18.809	3.132	58.818	1.00	50.62
ATOM	11683	O	MET	1626	-18.741	2.227	57.982	1.00	54.17
ATOM	11684	N	THR	1627	-19.954	3.613	59.286	1.00	43.90
ATOM	11685	CA	THR	1627	-21.231	3.049	58.913	1.00	41.91
ATOM	11686	CB	THR	1627	-22.309	3.502	59.905	1.00	41.27
ATOM	11687	OG1	THR	1627	-21.804	3.360	61.239	1.00	37.40
ATOM	11688	CG2	THR	1627	-23.555	2.648	59.773	1.00	44.40
ATOM	11689	C	THR	1627	-21.595	3.444	57.485	1.00	46.69
ATOM	11690	O	THR	1627	-22.722	3.241	57.048	1.00	54.59
ATOM	11691	N	GLU	1628	-20.626	3.984	56.750	1.00	48.04
ATOM	11692	CA	GLU	1628	-20.839	4.398	55.365	1.00	46.83
ATOM	11693	CB	GLU	1628	-21.096	5.895	55.293	1.00	52.42
ATOM	11694	CG	GLU	1628	-22.255	6.377	56.124	1.00	65.12
ATOM	11695	CD	GLU	1628	-22.277	7.885	56.277	1.00	75.46
ATOM	11696	OE1	GLU	1628	-21.527	8.587	55.555	1.00	80.41
ATOM	11697	OE2	GLU	1628	-23.049	8.372	57.132	1.00	77.68
ATOM	11698	C	GLU	1628	-19.639	4.071	54.487	1.00	47.21
ATOM	11699	O	GLU	1628	-19.656	4.338	53.285	1.00	46.68
ATOM	11700	N	ASN	1629	-18.597	3.510	55.098	1.00	50.38
ATOM	11701	CA	ASN	1629	-17.352	3.136	54.407	1.00	57.48
ATOM	11702	CB	ASN	1629	-17.603	2.098	53.289	1.00	64.25
ATOM	11703	CG	ASN	1629	-18.146	0.759	53.810	1.00	71.14
ATOM	11704	OD1	ASN	1629	-18.853	0.047	53.085	1.00	70.16
ATOM	11705	ND2	ASN	1629	-17.805	0.404	55.053	1.00	69.08
ATOM	11706	C	ASN	1629	-16.651	4.362	53.812	1.00	53.86
ATOM	11707	O	ASN	1629	-15.581	4.252	53.204	1.00	55.70
ATOM	11708	N	THR	1630	-17.241	5.531	54.028	1.00	48.07
ATOM	11709	CA	THR	1630	-16.700	6.767	53.490	1.00	42.19
ATOM	11710	CB	THR	1630	-17.824	7.706	53.033	1.00	42.50
ATOM	11711	OG1	THR	1630	-18.589	8.137	54.171	1.00	38.51
ATOM	11712	CG2	THR	1630	-18.731	6.986	52.033	1.00	41.65
ATOM	11713	C	THR	1630	-15.796	7.513	54.446	1.00	37.94
ATOM	11714	O	THR	1630	-15.650	8.723	54.350	1.00	33.71
ATOM	11715	N	CYS	1631	-15.184	6.803	55.379	1.00	38.93
ATOM	11716	CA	CYS	1631	-14.302	7.483	56.296	1.00	37.12
ATOM	11717	C	CYS	1631	-12.857	7.474	55.826	1.00	41.25
ATOM	11718	O	CYS	1631	-11.949	7.232	56.614	1.00	42.64
ATOM	11719	CB	CYS	1631	-14.391	6.888	57.682	1.00	32.82
ATOM	11720	SG	CYS	1631	-13.348	7.867	58.793	1.00	44.36
ATOM	11721	N	ASN	1632	-12.645	7.726	54.539	1.00	46.96
ATOM	11722	CA	ASN	1632	-11.299	7.743	53.978	1.00	52.62
ATOM	11723	CB	ASN	1632	-11.007	6.449	53.228	1.00	60.74
ATOM	11724	CG	ASN	1632	-11.045	5.235	54.130	1.00	69.27
ATOM	11725	OD1	ASN	1632	-10.003	4.730	54.546	1.00	72.80
ATOM	11726	ND2	ASN	1632	-12.251	4.772	54.455	1.00	70.19
ATOM	11727	C	ASN	1632	-11.165	8.926	53.050	1.00	53.43
ATOM	11728	O	ASN	1632	-10.820	10.013	53.498	1.00	60.06
ATOM	11729	N	ARG	1633	-11.464	8.732	51.768	1.00	57.56
ATOM	11730	CA	ARG	1633	-11.380	9.820	50.798	1.00	60.66
ATOM	11731	CB	ARG	1633	-11.854	9.361	49.417	1.00	59.56
ATOM	11732	CG	ARG	1633	-12.231	10.504	48.477	1.00	58.17
ATOM	11733	CD	ARG	1633	-12.129	10.129	47.016	1.00	59.52
ATOM	11734	NE	ARG	1633	-12.924	8.956	46.660	1.00	62.79
ATOM	11735	CZ	ARG	1633	-12.474	7.705	46.699	1.00	63.60
ATOM	11736	NH1	ARG	1633	-11.228	7.450	47.086	1.00	61.27
ATOM	11737	NH2	ARG	1633	-13.266	6.708	46.332	1.00	64.99

ATOM	11738	C	ARG	1633	-12.217	11.002	51.268	1.00	61.25
ATOM	11739	O	ARG	1633	-11.992	12.145	50.859	1.00	65.70
ATOM	11740	N	TYR	1634	-13.164	10.715	52.154	1.00	62.06
ATOM	11741	CA	TYR	1634	-14.037	11.736	52.704	1.00	58.12
ATOM	11742	CB	TYR	1634	-15.435	11.171	52.892	1.00	61.87
ATOM	11743	CG	TYR	1634	-16.463	12.221	53.162	1.00	64.41
ATOM	11744	CD1	TYR	1634	-17.313	12.656	52.154	1.00	69.32
ATOM	11745	CE1	TYR	1634	-18.246	13.652	52.395	1.00	82.69
ATOM	11746	CD2	TYR	1634	-16.571	12.803	54.423	1.00	65.70
ATOM	11747	CE2	TYR	1634	-17.494	13.795	54.679	1.00	74.88
ATOM	11748	CZ	TYR	1634	-18.329	14.220	53.663	1.00	83.88
ATOM	11749	OH	TYR	1634	-19.235	15.226	53.917	1.00	91.76
ATOM	11750	C	TYR	1634	-13.496	12.332	54.010	1.00	49.59
ATOM	11751	O	TYR	1634	-13.637	13.524	54.245	1.00	51.57
ATOM	11752	N	CYS	1635	-12.930	11.511	54.885	1.00	48.15
ATOM	11753	CA	CYS	1635	-12.367	12.039	56.120	1.00	46.32
ATOM	11754	C	CYS	1635	-10.853	11.874	56.103	1.00	51.74
ATOM	11755	O	CYS	1635	-10.284	11.138	56.914	1.00	51.51
ATOM	11756	CB	CYS	1635	-12.941	11.358	57.356	1.00	37.45
ATOM	11757	SG	CYS	1635	-11.941	11.797	58.810	1.00	38.75
ATOM	11758	N	ARG	1636	-10.204	12.584	55.184	1.00	59.39
ATOM	11759	CA	ARG	1636	-8.751	12.520	55.022	1.00	64.06
ATOM	11760	CB	ARG	1636	-8.325	13.284	53.760	1.00	67.06
ATOM	11761	CG	ARG	1636	-9.131	12.876	52.515	1.00	71.23
ATOM	11762	CD	ARG	1636	-8.439	13.216	51.206	1.00	73.34
ATOM	11763	NE	ARG	1636	-8.233	14.650	51.036	1.00	80.55
ATOM	11764	CZ	ARG	1636	-7.189	15.185	50.408	1.00	84.74
ATOM	11765	NH1	ARG	1636	-6.251	14.405	49.883	1.00	82.26
ATOM	11766	NH2	ARG	1636	-7.066	16.504	50.324	1.00	88.44
ATOM	11767	C	ARG	1636	-7.976	12.985	56.255	1.00	67.38
ATOM	11768	O	ARG	1636	-7.664	12.166	57.123	1.00	70.16
ATOM	11769	N	ASP	1637	-7.693	14.285	56.342	1.00	69.74
ATOM	11770	CA	ASP	1637	-6.958	14.871	57.475	1.00	69.76
ATOM	11771	CB	ASP	1637	-7.849	14.958	58.730	1.00	75.67
ATOM	11772	CG	ASP	1637	-9.055	15.871	58.544	1.00	81.06
ATOM	11773	OD1	ASP	1637	-8.937	16.898	57.837	1.00	81.22
ATOM	11774	OD2	ASP	1637	-10.122	15.561	59.121	1.00	83.21
ATOM	11775	C	ASP	1637	-5.711	14.053	57.795	1.00	65.55
ATOM	11776	O	ASP	1637	-5.115	13.449	56.900	1.00	68.56
ATOM	11777	N	GLU	1638	-5.352	14.013	59.077	1.00	58.64
ATOM	11778	CA	GLU	1638	-4.195	13.262	59.553	1.00	49.02
ATOM	11779	CB	GLU	1638	-2.902	13.938	59.102	1.00	54.57
ATOM	11780	CG	GLU	1638	-1.637	13.181	59.472	1.00	65.41
ATOM	11781	CD	GLU	1638	-0.371	13.939	59.100	1.00	71.62
ATOM	11782	OE1	GLU	1638	0.479	14.150	59.995	1.00	71.65
ATOM	11783	OE2	GLU	1638	-0.222	14.317	57.916	1.00	78.82
ATOM	11784	C	GLU	1638	-4.229	13.215	61.071	1.00	45.24
ATOM	11785	O	GLU	1638	-3.645	14.072	61.731	1.00	46.78
ATOM	11786	N	ILE	1639	-4.929	12.231	61.629	1.00	36.55
ATOM	11787	CA	ILE	1639	-5.017	12.102	63.082	1.00	29.11
ATOM	11788	CB	ILE	1639	-6.193	11.209	63.486	1.00	24.07
ATOM	11789	CG2	ILE	1639	-6.447	11.309	64.971	1.00	17.14
ATOM	11790	CG1	ILE	1639	-7.448	11.657	62.758	1.00	25.33
ATOM	11791	CD1	ILE	1639	-8.720	11.132	63.379	1.00	36.79
ATOM	11792	C	ILE	1639	-3.717	11.531	63.643	1.00	25.66
ATOM	11793	O	ILE	1639	-2.888	11.026	62.894	1.00	31.33
ATOM	11794	N	GLU	1640	-3.533	11.620	64.955	1.00	23.90

ATOM	11795	CA	GLU	1640	-2.324	11.109	65.583	1.00	33.37
ATOM	11796	CB	GLU	1640	-1.102	11.880	65.068	1.00	44.33
ATOM	11797	CG	GLU	1640	0.225	11.176	65.289	1.00	59.65
ATOM	11798	CD	GLU	1640	1.068	11.843	66.360	1.00	73.16
ATOM	11799	OE1	GLU	1640	2.097	12.460	65.998	1.00	78.81
ATOM	11800	OE2	GLU	1640	0.704	11.753	67.558	1.00	76.71
ATOM	11801	C	GLU	1640	-2.445	11.231	67.094	1.00	30.29
ATOM	11802	O	GLU	1640	-2.476	12.333	67.640	1.00	34.28
ATOM	11803	N	SER	1641	-2.485	10.079	67.758	1.00	29.05
ATOM	11804	CA	SER	1641	-2.640	9.982	69.211	1.00	29.76
ATOM	11805	CB	SER	1641	-2.698	8.509	69.623	1.00	31.62
ATOM	11806	OG	SER	1641	-2.842	8.384	71.024	1.00	46.20
ATOM	11807	C	SER	1641	-1.594	10.714	70.038	1.00	24.76
ATOM	11808	O	SER	1641	-0.582	10.141	70.424	1.00	22.90
ATOM	11809	N	VAL	1642	-1.883	11.967	70.368	1.00	29.69
ATOM	11810	CA	VAL	1642	-0.958	12.773	71.148	1.00	34.47
ATOM	11811	CB	VAL	1642	-1.472	14.223	71.351	1.00	39.13
ATOM	11812	CG1	VAL	1642	-2.738	14.247	72.193	1.00	40.13
ATOM	11813	CG2	VAL	1642	-0.389	15.077	71.991	1.00	44.98
ATOM	11814	C	VAL	1642	-0.629	12.155	72.497	1.00	41.97
ATOM	11815	O	VAL	1642	-1.494	11.590	73.175	1.00	33.69
ATOM	11816	N	LYS	1643	0.648	12.261	72.854	1.00	53.60
ATOM	11817	CA	LYS	1643	1.182	11.735	74.104	1.00	63.92
ATOM	11818	CB	LYS	1643	2.708	11.917	74.136	1.00	67.21
ATOM	11819	CG	LYS	1643	3.197	13.335	73.807	1.00	68.30
ATOM	11820	CD	LYS	1643	4.425	13.321	72.887	1.00	68.75
ATOM	11821	CE	LYS	1643	4.046	13.168	71.407	1.00	68.64
ATOM	11822	NZ	LYS	1643	3.333	11.898	71.058	1.00	65.85
ATOM	11823	C	LYS	1643	0.530	12.394	75.310	1.00	66.03
ATOM	11824	O	LYS	1643	1.163	13.171	76.027	1.00	66.98
ATOM	11825	N	GLU	1644	-0.740	12.054	75.525	1.00	69.97
ATOM	11826	CA	GLU	1644	-1.533	12.590	76.624	1.00	77.51
ATOM	11827	CB	GLU	1644	-0.877	12.260	77.979	1.00	84.07
ATOM	11828	CG	GLU	1644	-0.523	10.780	78.182	1.00	93.90
ATOM	11829	CD	GLU	1644	0.483	10.550	79.313	1.00	97.79
ATOM	11830	OE1	GLU	1644	1.410	11.377	79.474	1.00	97.99
ATOM	11831	OE2	GLU	1644	0.351	9.531	80.032	1.00	96.76
ATOM	11832	C	GLU	1644	-1.633	14.103	76.445	1.00	79.13
ATOM	11833	O	GLU	1644	-2.519	14.598	75.740	1.00	79.95
ATOM	11834	N	LEU	1645	-0.662	14.808	77.027	1.00	74.72
ATOM	11835	CA	LEU	1645	-0.567	16.262	76.992	1.00	67.38
ATOM	11836	CB	LEU	1645	0.839	16.706	77.397	1.00	67.11
ATOM	11837	CG	LEU	1645	1.165	16.885	78.878	1.00	69.73
ATOM	11838	CD1	LEU	1645	0.975	15.578	79.644	1.00	72.71
ATOM	11839	CD2	LEU	1645	2.599	17.388	79.000	1.00	69.14
ATOM	11840	C	LEU	1645	-0.912	16.922	75.670	1.00	66.32
ATOM	11841	O	LEU	1645	-0.543	16.435	74.600	1.00	60.11
ATOM	11842	N	LYS	1646	-1.597	18.058	75.774	1.00	67.53
ATOM	11843	CA	LYS	1646	-1.994	18.851	74.621	1.00	63.23
ATOM	11844	CB	LYS	1646	-3.290	19.582	74.913	1.00	54.91
ATOM	11845	CG	LYS	1646	-4.479	18.783	74.488	1.00	47.90
ATOM	11846	CD	LYS	1646	-4.422	18.564	72.984	1.00	45.90
ATOM	11847	CE	LYS	1646	-5.542	17.664	72.512	1.00	48.38
ATOM	11848	NZ	LYS	1646	-6.860	18.110	73.046	1.00	51.71
ATOM	11849	C	LYS	1646	-0.914	19.830	74.178	1.00	66.90
ATOM	11850	O	LYS	1646	-0.121	20.312	74.988	1.00	63.88
ATOM	11851	N	ASP	1647	-0.922	20.135	72.885	1.00	75.99

ATOM	11852	CA	ASP	1647	0.050	21.030	72.248	1.00	85.18
ATOM	11853	CB	ASP	1647	-0.230	21.129	70.740	1.00	90.93
ATOM	11854	CG	ASP	1647	-0.246	19.765	70.042	1.00	98.04
ATOM	11855	OD1	ASP	1647	-1.062	18.896	70.431	1.00	100.00
ATOM	11856	OD2	ASP	1647	0.542	19.573	69.087	1.00	100.00
ATOM	11857	C	ASP	1647	0.163	22.440	72.837	1.00	84.55
ATOM	11858	O	ASP	1647	-0.347	22.726	73.920	1.00	85.07
ATOM	11859	N	THR	1648	0.846	23.318	72.105	1.00	85.84
ATOM	11860	CA	THR	1648	1.052	24.693	72.535	1.00	86.81
ATOM	11861	CB	THR	1648	2.497	24.918	73.038	1.00	86.97
ATOM	11862	OG1	THR	1648	3.433	24.529	72.017	1.00	84.68
ATOM	11863	CG2	THR	1648	2.753	24.122	74.315	1.00	86.86
ATOM	11864	C	THR	1648	0.770	25.712	71.441	1.00	86.14
ATOM	11865	O	THR	1648	0.347	26.828	71.741	1.00	85.20
ATOM	11866	N	GLY	1649	1.018	25.321	70.187	1.00	87.00
ATOM	11867	CA	GLY	1649	0.812	26.196	69.042	1.00	87.65
ATOM	11868	C	GLY	1649	-0.511	26.941	69.022	1.00	90.49
ATOM	11869	O	GLY	1649	-1.453	26.525	68.341	1.00	91.30
ATOM	11870	N	LYS	1650	-0.569	28.052	69.757	1.00	90.13
ATOM	11871	CA	LYS	1650	-1.774	28.874	69.851	1.00	88.91
ATOM	11872	CB	LYS	1650	-1.710	29.814	71.065	1.00	83.10
ATOM	11873	CG	LYS	1650	-1.923	29.106	72.403	1.00	75.35
ATOM	11874	CD	LYS	1650	-2.141	30.093	73.548	1.00	72.74
ATOM	11875	CE	LYS	1650	-2.495	29.366	74.845	1.00	72.35
ATOM	11876	NZ	LYS	1650	-2.671	30.281	76.011	1.00	69.49
ATOM	11877	C	LYS	1650	-2.046	29.641	68.560	1.00	88.67
ATOM	11878	O	LYS	1650	-1.571	30.761	68.348	1.00	90.49
ATOM	11879	N	ASP	1651	-2.806	28.981	67.698	1.00	86.16
ATOM	11880	CA	ASP	1651	-3.208	29.465	66.383	1.00	83.22
ATOM	11881	CB	ASP	1651	-1.979	29.625	65.481	1.00	86.29
ATOM	11882	CG	ASP	1651	-0.991	28.473	65.627	1.00	86.67
ATOM	11883	OD1	ASP	1651	0.066	28.671	66.267	1.00	87.86
ATOM	11884	OD2	ASP	1651	-1.276	27.371	65.110	1.00	87.83
ATOM	11885	C	ASP	1651	-4.111	28.357	65.854	1.00	81.65
ATOM	11886	O	ASP	1651	-4.440	28.293	64.665	1.00	85.55
ATOM	11887	N	ALA	1652	-4.459	27.461	66.774	1.00	75.89
ATOM	11888	CA	ALA	1652	-5.310	26.311	66.525	1.00	68.52
ATOM	11889	CB	ALA	1652	-4.454	25.085	66.264	1.00	69.47
ATOM	11890	C	ALA	1652	-6.180	26.109	67.771	1.00	62.52
ATOM	11891	O	ALA	1652	-5.853	26.595	68.859	1.00	59.78
ATOM	11892	N	VAL	1653	-7.274	25.371	67.609	1.00	54.49
ATOM	11893	CA	VAL	1653	-8.219	25.118	68.694	1.00	49.33
ATOM	11894	CB	VAL	1653	-9.670	25.367	68.184	1.00	52.90
ATOM	11895	CG1	VAL	1653	-9.953	24.508	66.951	1.00	53.93
ATOM	11896	CG2	VAL	1653	-10.701	25.102	69.291	1.00	61.53
ATOM	11897	C	VAL	1653	-8.131	23.713	69.299	1.00	39.72
ATOM	11898	O	VAL	1653	-7.649	22.790	68.654	1.00	39.10
ATOM	11899	N	ASN	1654	-8.545	23.570	70.557	1.00	32.42
ATOM	11900	CA	ASN	1654	-8.557	22.265	71.194	1.00	35.67
ATOM	11901	CB	ASN	1654	-7.432	22.100	72.251	1.00	44.36
ATOM	11902	CG	ASN	1654	-7.358	23.241	73.257	1.00	57.35
ATOM	11903	OD1	ASN	1654	-8.265	23.411	74.068	1.00	65.01
ATOM	11904	ND2	ASN	1654	-6.243	23.976	73.260	1.00	69.71
ATOM	11905	C	ASN	1654	-9.966	21.869	71.683	1.00	34.69
ATOM	11906	O	ASN	1654	-10.551	22.488	72.568	1.00	39.29
ATOM	11907	N	CYS	1655	-10.519	20.856	71.021	1.00	33.41
ATOM	11908	CA	CYS	1655	-11.858	20.317	71.266	1.00	30.21

ATOM	11909	C	CYS	1655	-12.014	19.286	72.378	1.00	28.61
ATOM	11910	O	CYS	1655	-11.041	18.717	72.856	1.00	35.90
ATOM	11911	CB	CYS	1655	-12.351	19.707	69.975	1.00	35.45
ATOM	11912	SG	CYS	1655	-12.039	20.810	68.574	1.00	43.42
ATOM	11913	N	THR	1656	-13.263	18.970	72.704	1.00	21.21
ATOM	11914	CA	THR	1656	-13.573	18.030	73.778	1.00	23.58
ATOM	11915	CB	THR	1656	-13.476	18.753	75.138	1.00	17.85
ATOM	11916	OG1	THR	1656	-12.105	19.015	75.440	1.00	28.57
ATOM	11917	CG2	THR	1656	-14.072	17.932	76.250	1.00	22.68
ATOM	11918	C	THR	1656	-14.989	17.459	73.631	1.00	26.14
ATOM	11919	O	THR	1656	-15.926	18.189	73.307	1.00	32.94
ATOM	11920	N	TYR	1657	-15.161	16.169	73.909	1.00	22.87
ATOM	11921	CA	TYR	1657	-16.480	15.571	73.794	1.00	16.03
ATOM	11922	CB	TYR	1657	-16.829	15.416	72.333	1.00	11.18
ATOM	11923	CG	TYR	1657	-16.167	14.243	71.664	1.00	12.23
ATOM	11924	CD1	TYR	1657	-16.925	13.138	71.268	1.00	14.36
ATOM	11925	CE1	TYR	1657	-16.355	12.083	70.604	1.00	16.82
ATOM	11926	CD2	TYR	1657	-14.802	14.252	71.372	1.00	8.52
ATOM	11927	CE2	TYR	1657	-14.219	13.195	70.695	1.00	16.32
ATOM	11928	CZ	TYR	1657	-15.008	12.112	70.316	1.00	22.87
ATOM	11929	OH	TYR	1657	-14.463	11.041	69.659	1.00	28.48
ATOM	11930	C	TYR	1657	-16.635	14.224	74.481	1.00	21.20
ATOM	11931	O	TYR	1657	-15.671	13.639	74.959	1.00	25.69
ATOM	11932	N	LYS	1658	-17.862	13.727	74.509	1.00	20.39
ATOM	11933	CA	LYS	1658	-18.129	12.441	75.113	1.00	25.45
ATOM	11934	CB	LYS	1658	-19.272	12.547	76.111	1.00	27.76
ATOM	11935	CG	LYS	1658	-18.833	12.768	77.546	1.00	33.99
ATOM	11936	CD	LYS	1658	-20.020	12.707	78.503	1.00	33.83
ATOM	11937	CE	LYS	1658	-20.843	11.444	78.269	1.00	40.05
ATOM	11938	NZ	LYS	1658	-21.933	11.297	79.269	1.00	50.73
ATOM	11939	C	LYS	1658	-18.505	11.437	74.043	1.00	33.74
ATOM	11940	O	LYS	1658	-19.403	11.699	73.240	1.00	40.14
ATOM	11941	N	ASN	1659	-17.783	10.318	73.990	1.00	36.77
ATOM	11942	CA	ASN	1659	-18.095	9.261	73.025	1.00	34.05
ATOM	11943	CB	ASN	1659	-16.864	8.400	72.690	1.00	25.73
ATOM	11944	CG	ASN	1659	-16.173	7.840	73.921	1.00	20.99
ATOM	11945	OD1	ASN	1659	-16.629	8.022	75.057	1.00	2.00
ATOM	11946	ND2	ASN	1659	-15.054	7.152	73.696	1.00	8.31
ATOM	11947	C	ASN	1659	-19.217	8.421	73.623	1.00	33.33
ATOM	11948	O	ASN	1659	-19.557	8.590	74.797	1.00	31.70
ATOM	11949	N	GLU	1660	-19.806	7.531	72.828	1.00	36.08
ATOM	11950	CA	GLU	1660	-20.912	6.704	73.319	1.00	39.48
ATOM	11951	CB	GLU	1660	-21.360	5.708	72.251	1.00	41.29
ATOM	11952	CG	GLU	1660	-20.253	4.812	71.761	1.00	55.20
ATOM	11953	CD	GLU	1660	-20.720	3.809	70.726	1.00	66.37
ATOM	11954	OE1	GLU	1660	-20.710	2.593	71.046	1.00	71.34
ATOM	11955	OE2	GLU	1660	-21.081	4.233	69.599	1.00	66.38
ATOM	11956	C	GLU	1660	-20.583	5.967	74.612	1.00	33.87
ATOM	11957	O	GLU	1660	-21.469	5.678	75.407	1.00	36.30
ATOM	11958	N	ASP	1661	-19.296	5.740	74.847	1.00	32.50
ATOM	11959	CA	ASP	1661	-18.831	5.031	76.029	1.00	24.54
ATOM	11960	CB	ASP	1661	-17.488	4.370	75.715	1.00	23.53
ATOM	11961	CG	ASP	1661	-17.520	3.542	74.426	1.00	25.09
ATOM	11962	OD1	ASP	1661	-16.428	3.238	73.891	1.00	16.51
ATOM	11963	OD2	ASP	1661	-18.628	3.204	73.945	1.00	24.62
ATOM	11964	C	ASP	1661	-18.723	5.893	77.293	1.00	25.60
ATOM	11965	O	ASP	1661	-18.039	5.517	78.252	1.00	20.50

ATOM	11966	N	ASP	1662	-19.425	7.027	77.298	1.00	28.33
ATOM	11967	CA	ASP	1662	-19.443	7.969	78.427	1.00	26.21
ATOM	11968	CB	ASP	1662	-20.097	7.336	79.648	1.00	35.41
ATOM	11969	CG	ASP	1662	-21.584	7.161	79.486	1.00	49.20
ATOM	11970	OD1	ASP	1662	-22.035	6.853	78.360	1.00	50.18
ATOM	11971	OD2	ASP	1662	-22.304	7.334	80.495	1.00	58.79
ATOM	11972	C	ASP	1662	-18.099	8.543	78.852	1.00	28.09
ATOM	11973	O	ASP	1662	-17.958	9.007	79.979	1.00	30.14
ATOM	11974	N	CYS	1663	-17.106	8.485	77.975	1.00	28.59
ATOM	11975	CA	CYS	1663	-15.790	9.006	78.304	1.00	29.10
ATOM	11976	C	CYS	1663	-15.590	10.270	77.520	1.00	29.33
ATOM	11977	O	CYS	1663	-16.066	10.391	76.388	1.00	31.46
ATOM	11978	CB	CYS	1663	-14.693	8.006	77.939	1.00	38.42
ATOM	11979	SG	CYS	1663	-14.733	6.448	78.876	1.00	45.50
ATOM	11980	N	VAL	1664	-14.855	11.201	78.107	1.00	24.92
ATOM	11981	CA	VAL	1664	-14.617	12.459	77.443	1.00	21.71
ATOM	11982	CB	VAL	1664	-14.814	13.658	78.415	1.00	24.70
ATOM	11983	CG1	VAL	1664	-14.148	13.398	79.749	1.00	21.05
ATOM	11984	CG2	VAL	1664	-14.310	14.940	77.792	1.00	30.87
ATOM	11985	C	VAL	1664	-13.305	12.508	76.674	1.00	14.53
ATOM	11986	O	VAL	1664	-12.221	12.648	77.243	1.00	19.50
ATOM	11987	N	VAL	1665	-13.437	12.344	75.365	1.00	13.83
ATOM	11988	CA	VAL	1665	-12.324	12.372	74.420	1.00	18.90
ATOM	11989	CB	VAL	1665	-12.755	11.787	73.060	1.00	13.77
ATOM	11990	CG1	VAL	1665	-11.554	11.583	72.160	1.00	5.97
ATOM	11991	CG2	VAL	1665	-13.569	10.514	73.249	1.00	10.32
ATOM	11992	C	VAL	1665	-11.900	13.821	74.162	1.00	26.59
ATOM	11993	O	VAL	1665	-12.754	14.693	73.944	1.00	24.60
ATOM	11994	N	ARG	1666	-10.590	14.071	74.140	1.00	30.69
ATOM	11995	CA	ARG	1666	-10.077	15.423	73.903	1.00	29.36
ATOM	11996	CB	ARG	1666	-9.390	15.958	75.162	1.00	33.55
ATOM	11997	CG	ARG	1666	-10.325	16.134	76.355	1.00	52.89
ATOM	11998	CD	ARG	1666	-9.560	16.344	77.662	1.00	65.56
ATOM	11999	NE	ARG	1666	-8.641	17.482	77.608	1.00	71.89
ATOM	12000	CZ	ARG	1666	-8.995	18.747	77.811	1.00	75.07
ATOM	12001	NH1	ARG	1666	-10.261	19.059	78.084	1.00	68.52
ATOM	12002	NH2	ARG	1666	-8.076	19.705	77.756	1.00	73.84
ATOM	12003	C	ARG	1666	-9.095	15.461	72.749	1.00	25.64
ATOM	12004	O	ARG	1666	-8.147	14.696	72.730	1.00	30.79
ATOM	12005	N	PHE	1667	-9.331	16.342	71.782	1.00	23.65
ATOM	12006	CA	PHE	1667	-8.427	16.478	70.644	1.00	22.96
ATOM	12007	CB	PHE	1667	-8.935	15.729	69.403	1.00	27.05
ATOM	12008	CG	PHE	1667	-10.319	16.116	68.939	1.00	25.05
ATOM	12009	CD1	PHE	1667	-10.518	16.568	67.639	1.00	22.39
ATOM	12010	CD2	PHE	1667	-11.438	15.880	69.734	1.00	31.76
ATOM	12011	CE1	PHE	1667	-11.812	16.764	67.127	1.00	22.26
ATOM	12012	CE2	PHE	1667	-12.735	16.074	69.230	1.00	29.47
ATOM	12013	CZ	PHE	1667	-12.917	16.512	67.924	1.00	22.34
ATOM	12014	C	PHE	1667	-8.038	17.913	70.306	1.00	22.57
ATOM	12015	O	PHE	1667	-8.299	18.819	71.079	1.00	16.69
ATOM	12016	N	GLN	1668	-7.364	18.104	69.173	1.00	28.66
ATOM	12017	CA	GLN	1668	-6.918	19.428	68.747	1.00	27.94
ATOM	12018	CB	GLN	1668	-5.641	19.797	69.493	1.00	25.08
ATOM	12019	CG	GLN	1668	-5.001	21.100	69.059	1.00	29.92
ATOM	12020	CD	GLN	1668	-3.615	21.303	69.663	1.00	35.40
ATOM	12021	OE1	GLN	1668	-2.689	21.748	68.979	1.00	41.29
ATOM	12022	NE2	GLN	1668	-3.466	20.974	70.947	1.00	29.53

ATOM	12023	C	GLN	1668	-6.657	19.504	67.246	1.00	33.08
ATOM	12024	O	GLN	1668	-5.801	18.789	66.729	1.00	32.99
ATOM	12025	N	TYR	1669	-7.409	20.358	66.551	1.00	40.44
ATOM	12026	CA	TYR	1669	-7.241	20.546	65.112	1.00	46.75
ATOM	12027	CB	TYR	1669	-8.571	20.924	64.449	1.00	51.03
ATOM	12028	CG	TYR	1669	-8.473	21.040	62.945	1.00	58.55
ATOM	12029	CD1	TYR	1669	-8.316	19.907	62.143	1.00	60.86
ATOM	12030	CE1	TYR	1669	-8.152	20.022	60.752	1.00	70.25
ATOM	12031	CD2	TYR	1669	-8.472	22.292	62.325	1.00	63.62
ATOM	12032	CE2	TYR	1669	-8.308	22.421	60.939	1.00	66.63
ATOM	12033	CZ	TYR	1669	-8.144	21.287	60.156	1.00	70.77
ATOM	12034	OH	TYR	1669	-7.956	21.431	58.789	1.00	69.60
ATOM	12035	C	TYR	1669	-6.205	21.655	64.924	1.00	56.66
ATOM	12036	O	TYR	1669	-6.297	22.706	65.556	1.00	59.63
ATOM	12037	N	TYR	1670	-5.250	21.427	64.022	1.00	66.56
ATOM	12038	CA	TYR	1670	-4.150	22.365	63.766	1.00	73.40
ATOM	12039	CB	TYR	1670	-2.936	21.819	64.523	1.00	74.87
ATOM	12040	CG	TYR	1670	-1.707	22.686	64.615	1.00	83.05
ATOM	12041	CD1	TYR	1670	-0.722	22.637	63.626	1.00	86.29
ATOM	12042	CE1	TYR	1670	0.483	23.323	63.772	1.00	91.79
ATOM	12043	CD2	TYR	1670	-1.460	23.451	65.756	1.00	87.97
ATOM	12044	CE2	TYR	1670	-0.257	24.145	65.913	1.00	95.46
ATOM	12045	CZ	TYR	1670	0.715	24.072	64.917	1.00	95.90
ATOM	12046	OH	TYR	1670	1.918	24.728	65.067	1.00	99.04
ATOM	12047	C	TYR	1670	-3.865	22.465	62.252	1.00	76.91
ATOM	12048	O	TYR	1670	-4.170	21.535	61.498	1.00	76.48
ATOM	12049	N	GLU	1671	-3.295	23.587	61.804	1.00	82.18
ATOM	12050	CA	GLU	1671	-3.002	23.764	60.376	1.00	87.98
ATOM	12051	CB	GLU	1671	-4.301	23.942	59.588	1.00	91.33
ATOM	12052	CG	GLU	1671	-5.163	25.096	60.076	1.00	94.89
ATOM	12053	CD	GLU	1671	-6.456	25.234	59.304	1.00	96.55
ATOM	12054	OE1	GLU	1671	-7.377	25.896	59.829	1.00	96.70
ATOM	12055	OE2	GLU	1671	-6.553	24.685	58.179	1.00	96.60
ATOM	12056	C	GLU	1671	-2.025	24.881	59.994	1.00	91.87
ATOM	12057	O	GLU	1671	-2.291	26.064	60.220	1.00	91.45
ATOM	12058	N	ASP	1672	-0.917	24.484	59.367	1.00	95.54
ATOM	12059	CA	ASP	1672	0.128	25.407	58.910	1.00	96.50
ATOM	12060	CB	ASP	1672	0.907	26.002	60.102	1.00	96.71
ATOM	12061	CG	ASP	1672	1.985	25.062	60.643	1.00	98.26
ATOM	12062	OD1	ASP	1672	3.172	25.452	60.640	1.00	96.26
ATOM	12063	OD2	ASP	1672	1.653	23.930	61.051	1.00	99.07
ATOM	12064	C	ASP	1672	1.090	24.676	57.955	1.00	99.21
ATOM	12065	O	ASP	1672	0.715	23.668	57.344	1.00	98.96
ATOM	12066	N	SER	1673	2.318	25.192	57.840	1.00	100.00
ATOM	12067	CA	SER	1673	3.379	24.637	56.984	1.00	100.00
ATOM	12068	CB	SER	1673	3.751	23.208	57.419	1.00	100.00
ATOM	12069	OG	SER	1673	4.362	23.204	58.701	1.00	97.30
ATOM	12070	C	SER	1673	3.080	24.690	55.480	1.00	98.78
ATOM	12071	O	SER	1673	3.768	25.391	54.731	1.00	96.65
ATOM	12072	N	SER	1674	2.065	23.944	55.048	1.00	98.67
ATOM	12073	CA	SER	1674	1.658	23.906	53.642	1.00	100.00
ATOM	12074	CB	SER	1674	2.656	23.085	52.804	1.00	100.00
ATOM	12075	OG	SER	1674	2.918	21.815	53.383	1.00	100.00
ATOM	12076	C	SER	1674	0.232	23.354	53.495	1.00	100.00
ATOM	12077	O	SER	1674	-0.022	22.456	52.683	1.00	100.00
ATOM	12078	N	GLY	1675	-0.699	23.933	54.253	1.00	99.39
ATOM	12079	CA	GLY	1675	-2.082	23.483	54.217	1.00	97.36

ATOM	12080	C	GLY	1675	-2.161	22.127	54.888	1.00	95.98
ATOM	12081	O	GLY	1675	-2.949	21.261	54.493	1.00	96.59
ATOM	12082	N	LYS	1676	-1.315	21.954	55.901	1.00	89.24
ATOM	12083	CA	LYS	1676	-1.217	20.718	56.657	1.00	82.42
ATOM	12084	CB	LYS	1676	0.184	20.606	57.256	1.00	82.80
ATOM	12085	CG	LYS	1676	0.425	19.361	58.087	1.00	89.13
ATOM	12086	CD	LYS	1676	1.303	19.681	59.290	1.00	94.57
ATOM	12087	CE	LYS	1676	0.641	20.737	60.176	1.00	97.93
ATOM	12088	NZ	LYS	1676	1.431	21.043	61.402	1.00	99.57
ATOM	12089	C	LYS	1676	-2.263	20.628	57.760	1.00	78.08
ATOM	12090	O	LYS	1676	-2.314	21.475	58.652	1.00	76.08
ATOM	12091	N	SER	1677	-3.088	19.587	57.679	1.00	76.44
ATOM	12092	CA	SER	1677	-4.147	19.307	58.652	1.00	73.16
ATOM	12093	CB	SER	1677	-5.443	18.917	57.927	1.00	76.52
ATOM	12094	OG	SER	1677	-6.385	18.334	58.816	1.00	80.85
ATOM	12095	C	SER	1677	-3.723	18.173	59.594	1.00	63.61
ATOM	12096	O	SER	1677	-3.604	17.016	59.181	1.00	58.93
ATOM	12097	N	ILE	1678	-3.503	18.510	60.857	1.00	54.11
ATOM	12098	CA	ILE	1678	-3.099	17.514	61.839	1.00	48.88
ATOM	12099	CB	ILE	1678	-1.622	17.698	62.277	1.00	50.02
ATOM	12100	CG2	ILE	1678	-1.401	19.086	62.862	1.00	45.43
ATOM	12101	CG1	ILE	1678	-1.226	16.619	63.289	1.00	46.45
ATOM	12102	CD1	ILE	1678	-1.208	15.207	62.735	1.00	43.54
ATOM	12103	C	ILE	1678	-3.998	17.501	63.070	1.00	41.88
ATOM	12104	O	ILE	1678	-4.417	18.544	63.572	1.00	40.40
ATOM	12105	N	LEU	1679	-4.295	16.296	63.539	1.00	33.84
ATOM	12106	CA	LEU	1679	-5.131	16.109	64.705	1.00	29.34
ATOM	12107	CB	LEU	1679	-6.369	15.315	64.314	1.00	25.77
ATOM	12108	CG	LEU	1679	-7.504	16.229	63.848	1.00	25.65
ATOM	12109	CD1	LEU	1679	-8.105	15.793	62.518	1.00	26.35
ATOM	12110	CD2	LEU	1679	-8.542	16.260	64.939	1.00	20.29
ATOM	12111	C	LEU	1679	-4.360	15.425	65.825	1.00	27.30
ATOM	12112	O	LEU	1679	-3.484	14.598	65.575	1.00	31.18
ATOM	12113	N	TYR	1680	-4.650	15.808	67.061	1.00	21.60
ATOM	12114	CA	TYR	1680	-3.958	15.221	68.196	1.00	25.09
ATOM	12115	CB	TYR	1680	-2.990	16.229	68.806	1.00	36.58
ATOM	12116	CG	TYR	1680	-1.950	16.752	67.842	1.00	50.83
ATOM	12117	CD1	TYR	1680	-0.761	16.057	67.615	1.00	55.11
ATOM	12118	CE1	TYR	1680	0.201	16.544	66.736	1.00	61.24
ATOM	12119	CD2	TYR	1680	-2.147	17.952	67.164	1.00	56.99
ATOM	12120	CE2	TYR	1680	-1.193	18.447	66.284	1.00	64.88
ATOM	12121	CZ	TYR	1680	-0.023	17.742	66.076	1.00	65.85
ATOM	12122	OH	TYR	1680	0.908	18.234	65.190	1.00	77.30
ATOM	12123	C	TYR	1680	-4.964	14.769	69.243	1.00	27.29
ATOM	12124	O	TYR	1680	-5.575	15.595	69.930	1.00	31.57
ATOM	12125	N	VAL	1681	-5.100	13.458	69.394	1.00	18.88
ATOM	12126	CA	VAL	1681	-6.053	12.906	70.340	1.00	13.23
ATOM	12127	CB	VAL	1681	-6.820	11.747	69.715	1.00	2.00
ATOM	12128	CG1	VAL	1681	-8.129	11.553	70.425	1.00	2.00
ATOM	12129	CG2	VAL	1681	-7.044	12.008	68.261	1.00	2.00
ATOM	12130	C	VAL	1681	-5.414	12.448	71.649	1.00	14.69
ATOM	12131	O	VAL	1681	-4.601	11.527	71.665	1.00	19.13
ATOM	12132	N	VAL	1682	-5.787	13.110	72.740	1.00	14.72
ATOM	12133	CA	VAL	1682	-5.276	12.797	74.066	1.00	18.80
ATOM	12134	CB	VAL	1682	-6.106	13.480	75.176	1.00	18.30
ATOM	12135	CG1	VAL	1682	-5.701	12.960	76.535	1.00	12.85
ATOM	12136	CG2	VAL	1682	-5.915	14.966	75.135	1.00	23.12

ATOM	12137	C	VAL	1682	-5.357	11.308	74.307	1.00	28.80
ATOM	12138	O	VAL	1682	-6.433	10.803	74.641	1.00	34.83
ATOM	12139	N	GLU	1683	-4.238	10.612	74.088	1.00	30.92
ATOM	12140	CA	GLU	1683	-4.150	9.168	74.321	1.00	26.21
ATOM	12141	CB	GLU	1683	-2.724	8.678	74.051	1.00	30.92
ATOM	12142	CG	GLU	1683	-2.389	7.306	74.639	1.00	36.70
ATOM	12143	CD	GLU	1683	-1.067	7.304	75.396	1.00	41.07
ATOM	12144	OE1	GLU	1683	-0.096	6.714	74.883	1.00	46.14
ATOM	12145	OE2	GLU	1683	-0.995	7.895	76.500	1.00	35.87
ATOM	12146	C	GLU	1683	-4.511	8.925	75.791	1.00	25.92
ATOM	12147	O	GLU	1683	-3.758	9.312	76.692	1.00	25.44
ATOM	12148	N	GLU	1684	-5.691	8.353	76.016	1.00	18.94
ATOM	12149	CA	GLU	1684	-6.208	8.062	77.354	1.00	25.92
ATOM	12150	CB	GLU	1684	-5.071	7.841	78.377	1.00	30.49
ATOM	12151	CG	GLU	1684	-5.472	7.127	79.662	1.00	39.72
ATOM	12152	CD	GLU	1684	-6.031	5.735	79.421	1.00	46.83
ATOM	12153	OE1	GLU	1684	-7.258	5.609	79.170	1.00	47.83
ATOM	12154	OE2	GLU	1684	-5.239	4.770	79.497	1.00	50.50
ATOM	12155	C	GLU	1684	-7.243	9.088	77.873	1.00	22.67
ATOM	12156	O	GLU	1684	-6.940	9.958	78.705	1.00	16.86
ATOM	12157	N	PRO	1685	-8.482	8.996	77.358	1.00	18.00
ATOM	12158	CD	PRO	1685	-8.717	8.157	76.171	1.00	7.07
ATOM	12159	CA	PRO	1685	-9.671	9.805	77.652	1.00	17.26
ATOM	12160	CB	PRO	1685	-10.706	9.193	76.727	1.00	7.64
ATOM	12161	CG	PRO	1685	-9.876	8.820	75.543	1.00	2.20
ATOM	12162	C	PRO	1685	-10.107	9.619	79.091	1.00	18.77
ATOM	12163	O	PRO	1685	-9.817	8.591	79.682	1.00	30.22
ATOM	12164	N	GLU	1686	-10.819	10.597	79.648	1.00	28.39
ATOM	12165	CA	GLU	1686	-11.301	10.506	81.036	1.00	35.08
ATOM	12166	CB	GLU	1686	-11.569	11.899	81.642	1.00	42.53
ATOM	12167	CG	GLU	1686	-10.347	12.816	81.820	1.00	53.24
ATOM	12168	CD	GLU	1686	-9.917	13.549	80.540	1.00	66.00
ATOM	12169	OE1	GLU	1686	-10.775	13.879	79.684	1.00	61.78
ATOM	12170	OE2	GLU	1686	-8.701	13.811	80.398	1.00	74.90
ATOM	12171	C	GLU	1686	-12.579	9.662	81.090	1.00	35.80
ATOM	12172	O	GLU	1686	-13.537	9.915	80.350	1.00	37.69
ATOM	12173	N	CYS	1687	-12.597	8.679	81.986	1.00	32.54
ATOM	12174	CA	CYS	1687	-13.739	7.787	82.116	1.00	32.52
ATOM	12175	C	CYS	1687	-14.228	7.612	83.546	1.00	37.51
ATOM	12176	O	CYS	1687	-13.470	7.783	84.503	1.00	35.46
ATOM	12177	CB	CYS	1687	-13.378	6.414	81.568	1.00	33.36
ATOM	12178	SG	CYS	1687	-12.932	6.379	79.814	1.00	42.06
ATOM	12179	N	PRO	1688	-15.504	7.226	83.706	1.00	41.97
ATOM	12180	CD	PRO	1688	-16.503	7.036	82.636	1.00	43.06
ATOM	12181	CA	PRO	1688	-16.103	7.015	85.025	1.00	47.36
ATOM	12182	CB	PRO	1688	-17.561	6.695	84.681	1.00	47.61
ATOM	12183	CG	PRO	1688	-17.484	6.119	83.279	1.00	42.28
ATOM	12184	C	PRO	1688	-15.428	5.869	85.777	1.00	55.92
ATOM	12185	O	PRO	1688	-15.729	4.705	85.536	1.00	61.77
ATOM	12186	N	LYS	1689	-14.508	6.202	86.679	1.00	66.57
ATOM	12187	CA	LYS	1689	-13.782	5.196	87.462	1.00	74.73
ATOM	12188	CB	LYS	1689	-12.526	5.806	88.091	1.00	82.06
ATOM	12189	CG	LYS	1689	-11.455	6.214	87.090	1.00	91.30
ATOM	12190	CD	LYS	1689	-10.248	6.837	87.792	1.00	93.62
ATOM	12191	CE	LYS	1689	-10.624	8.112	88.537	1.00	93.82
ATOM	12192	NZ	LYS	1689	-9.447	8.722	89.212	1.00	90.30
ATOM	12193	C	LYS	1689	-14.618	4.533	88.556	1.00	75.22

ATOM	12194	O	LYS	1689	-15.586	5.112	89.050	1.00	76.36
ATOM	12195	N	GLY	1690	-14.216	3.327	88.944	1.00	74.39
ATOM	12196	CA	GLY	1690	-14.933	2.598	89.976	1.00	73.70
ATOM	12197	C	GLY	1690	-14.164	1.391	90.480	1.00	77.66
ATOM	12198	O	GLY	1690	-12.947	1.293	90.304	1.00	81.81
ATOM	12199	C1	NAG	2044	22.445	45.064	7.663	1.00	24.27
ATOM	12200	C2	NAG	2044	21.487	43.886	7.477	1.00	29.84
ATOM	12201	N2	NAG	2044	20.177	44.243	7.990	1.00	37.18
ATOM	12202	C7	NAG	2044	19.160	44.467	7.159	1.00	39.26
ATOM	12203	O7	NAG	2044	19.259	44.373	5.937	1.00	41.55
ATOM	12204	C8	NAG	2044	17.824	44.844	7.780	1.00	37.27
ATOM	12205	C3	NAG	2044	22.012	42.652	8.217	1.00	31.79
ATOM	12206	O3	NAG	2044	21.224	41.526	7.868	1.00	31.35
ATOM	12207	C4	NAG	2044	23.469	42.377	7.858	1.00	35.33
ATOM	12208	O4	NAG	2044	23.983	41.296	8.668	1.00	48.82
ATOM	12209	C5	NAG	2044	24.290	43.639	8.065	1.00	34.18
ATOM	12210	O5	NAG	2044	23.755	44.696	7.254	1.00	27.33
ATOM	12211	C6	NAG	2044	25.740	43.457	7.669	1.00	41.63
ATOM	12212	O6	NAG	2044	26.193	44.521	6.847	1.00	44.04
ATOM	12213	C1	NAG	2045	24.891	41.593	9.684	1.00	67.66
ATOM	12214	C2	NAG	2045	24.419	40.976	11.003	1.00	81.59
ATOM	12215	N2	NAG	2045	25.430	41.149	12.040	1.00	90.53
ATOM	12216	C7	NAG	2045	25.132	40.963	13.330	1.00	94.20
ATOM	12217	O7	NAG	2045	24.010	40.626	13.729	1.00	96.79
ATOM	12218	C8	NAG	2045	26.257	41.173	14.337	1.00	89.61
ATOM	12219	C3	NAG	2045	24.122	39.486	10.780	1.00	85.08
ATOM	12220	O3	NAG	2045	22.796	39.329	10.280	1.00	88.94
ATOM	12221	C4	NAG	2045	25.125	38.896	9.785	1.00	77.64
ATOM	12222	O4	NAG	2045	25.419	37.547	10.130	1.00	72.46
ATOM	12223	C5	NAG	2045	26.416	39.718	9.796	1.00	73.25
ATOM	12224	O5	NAG	2045	26.176	41.062	9.309	1.00	68.04
ATOM	12225	C6	NAG	2045	27.473	39.103	8.900	1.00	76.62
ATOM	12226	O6	NAG	2045	26.890	38.256	7.915	1.00	76.31
ATOM	12227	C1	NAG	2260	-2.364	70.359	41.140	1.00	64.89
ATOM	12228	C2	NAG	2260	-3.786	69.825	41.373	1.00	69.53
ATOM	12229	N2	NAG	2260	-4.715	70.400	40.409	1.00	79.94
ATOM	12230	C7	NAG	2260	-4.718	71.708	40.139	1.00	85.47
ATOM	12231	O7	NAG	2260	-3.933	72.510	40.654	1.00	90.24
ATOM	12232	C8	NAG	2260	-5.738	72.204	39.122	1.00	79.69
ATOM	12233	C3	NAG	2260	-4.259	70.142	42.791	1.00	70.30
ATOM	12234	O3	NAG	2260	-5.542	69.578	43.011	1.00	66.43
ATOM	12235	C4	NAG	2260	-3.279	69.573	43.804	1.00	71.47
ATOM	12236	O4	NAG	2260	-3.632	70.023	45.106	1.00	76.07
ATOM	12237	C5	NAG	2260	-1.836	69.996	43.473	1.00	70.79
ATOM	12238	O5	NAG	2260	-1.804	70.905	42.347	1.00	67.67
ATOM	12239	C6	NAG	2260	-0.908	68.840	43.154	1.00	69.63
ATOM	12240	O6	NAG	2260	-1.635	67.690	42.745	1.00	77.33
ATOM	12241	C1	NAG	2266	-1.997	54.690	41.594	1.00	19.71
ATOM	12242	C2	NAG	2266	-2.147	55.559	42.835	1.00	12.61
ATOM	12243	N2	NAG	2266	-2.881	56.750	42.473	1.00	24.46
ATOM	12244	C7	NAG	2266	-4.197	56.783	42.626	1.00	31.82
ATOM	12245	O7	NAG	2266	-4.832	55.846	43.116	1.00	35.28
ATOM	12246	C8	NAG	2266	-4.914	58.059	42.200	1.00	29.32
ATOM	12247	C3	NAG	2266	-0.802	55.976	43.392	1.00	10.45
ATOM	12248	O3	NAG	2266	-0.988	56.486	44.697	1.00	12.29
ATOM	12249	C4	NAG	2266	0.188	54.828	43.470	1.00	14.11
ATOM	12250	O4	NAG	2266	1.503	55.389	43.626	1.00	14.31

ATOM	12251	C5	NAG	2266	0.171	53.968	42.209	1.00	16.05
ATOM	12252	O5	NAG	2266	-1.168	53.573	41.889	1.00	17.36
ATOM	12253	C6	NAG	2266	0.978	52.694	42.370	1.00	12.24
ATOM	12254	O6	NAG	2266	0.374	51.819	43.309	1.00	17.79
ATOM	12255	C1	NAG	2267	2.121	55.230	44.850	1.00	12.71
ATOM	12256	C2	NAG	2267	3.580	55.607	44.699	1.00	12.81
ATOM	12257	N2	NAG	2267	4.253	54.666	43.818	1.00	5.86
ATOM	12258	C7	NAG	2267	4.279	54.861	42.501	1.00	2.00
ATOM	12259	O7	NAG	2267	3.707	55.793	41.947	1.00	7.28
ATOM	12260	C8	NAG	2267	5.023	53.846	41.666	1.00	2.00
ATOM	12261	C3	NAG	2267	4.293	55.636	46.049	1.00	16.83
ATOM	12262	O3	NAG	2267	5.567	56.245	45.881	1.00	15.78
ATOM	12263	C4	NAG	2267	3.501	56.415	47.102	1.00	21.77
ATOM	12264	O4	NAG	2267	4.063	56.173	48.393	1.00	26.17
ATOM	12265	C5	NAG	2267	2.031	55.990	47.099	1.00	27.13
ATOM	12266	O5	NAG	2267	1.484	56.106	45.776	1.00	17.41
ATOM	12267	C6	NAG	2267	1.155	56.837	48.018	1.00	38.04
ATOM	12268	O6	NAG	2267	1.898	57.858	48.676	1.00	41.79
ATOM	12269	C1	NAG	2458	-61.934	50.252	-10.972	1.00	90.48
ATOM	12270	C2	NAG	2458	-61.827	51.491	-10.086	1.00	89.39
ATOM	12271	N2	NAG	2458	-60.590	52.203	-10.365	1.00	81.11
ATOM	12272	C7	NAG	2458	-60.432	53.465	-9.975	1.00	77.52
ATOM	12273	O7	NAG	2458	-61.298	54.105	-9.364	1.00	69.48
ATOM	12274	C8	NAG	2458	-59.100	54.116	-10.317	1.00	74.68
ATOM	12275	C3	NAG	2458	-61.870	51.041	-8.625	1.00	92.63
ATOM	12276	O3	NAG	2458	-63.209	51.122	-8.147	1.00	98.12
ATOM	12277	C4	NAG	2458	-61.371	49.592	-8.495	1.00	92.12
ATOM	12278	O4	NAG	2458	-60.895	49.364	-7.170	1.00	82.29
ATOM	12279	C5	NAG	2458	-60.256	49.286	-9.523	1.00	92.33
ATOM	12280	O5	NAG	2458	-60.718	49.493	-10.889	1.00	93.75
ATOM	12281	C6	NAG	2458	-59.758	47.845	-9.449	1.00	86.07
ATOM	12282	O6	NAG	2458	-59.302	47.511	-8.145	1.00	75.06
ATOM	12283	C1	NAG	2585	-34.896	41.576	0.451	1.00	79.39
ATOM	12284	C2	NAG	2585	-33.452	41.153	0.136	1.00	83.88
ATOM	12285	N2	NAG	2585	-33.280	40.872	-1.288	1.00	85.76
ATOM	12286	C7	NAG	2585	-34.170	40.155	-1.980	1.00	88.82
ATOM	12287	O7	NAG	2585	-35.200	39.691	-1.486	1.00	86.04
ATOM	12288	C8	NAG	2585	-33.874	39.921	-3.454	1.00	87.80
ATOM	12289	C3	NAG	2585	-33.016	39.942	0.977	1.00	85.01
ATOM	12290	O3	NAG	2585	-31.633	39.678	0.761	1.00	80.78
ATOM	12291	C4	NAG	2585	-33.248	40.171	2.475	1.00	84.33
ATOM	12292	O4	NAG	2585	-33.175	38.897	3.154	1.00	92.25
ATOM	12293	C5	NAG	2585	-34.621	40.819	2.738	1.00	78.65
ATOM	12294	O5	NAG	2585	-35.440	40.806	1.541	1.00	79.06
ATOM	12295	C6	NAG	2585	-34.533	42.256	3.236	1.00	73.59
ATOM	12296	O6	NAG	2585	-35.820	42.836	3.385	1.00	63.99
ATOM	12297	C1	NAG	2586	-32.624	38.837	4.432	1.00	95.01
ATOM	12298	C2	NAG	2586	-31.101	38.941	4.399	1.00	93.57
ATOM	12299	N2	NAG	2586	-30.541	37.901	3.552	1.00	93.71
ATOM	12300	C7	NAG	2586	-29.375	38.085	2.938	1.00	93.09
ATOM	12301	O7	NAG	2586	-28.715	39.122	3.034	1.00	94.56
ATOM	12302	C8	NAG	2586	-28.864	36.941	2.077	1.00	91.33
ATOM	12303	C3	NAG	2586	-30.591	38.777	5.834	1.00	92.00
ATOM	12304	O3	NAG	2586	-29.183	38.952	5.875	1.00	96.79
ATOM	12305	C4	NAG	2586	-31.261	39.790	6.764	1.00	91.63
ATOM	12306	O4	NAG	2586	-30.907	39.498	8.108	1.00	90.04
ATOM	12307	C5	NAG	2586	-32.789	39.748	6.620	1.00	91.56

ATOM	12308	O5	NAG	2586	-33.167	39.889	5.235	1.00	95.89
ATOM	12309	C6	NAG	2586	-33.480	40.859	7.387	1.00	87.52
ATOM	12310	O6	NAG	2586	-33.838	40.433	8.693	1.00	83.88
ATOM	12311	C1	NAG	2943	-40.111	32.235	62.487	1.00	67.61
ATOM	12312	C2	NAG	2943	-41.528	32.274	61.913	1.00	73.49
ATOM	12313	N2	NAG	2943	-42.384	33.061	62.772	1.00	77.10
ATOM	12314	C7	NAG	2943	-42.604	34.340	62.485	1.00	81.81
ATOM	12315	O7	NAG	2943	-42.109	34.909	61.503	1.00	78.90
ATOM	12316	C8	NAG	2943	-43.510	35.103	63.439	1.00	79.18
ATOM	12317	C3	NAG	2943	-42.092	30.869	61.766	1.00	77.80
ATOM	12318	O3	NAG	2943	-43.349	30.927	61.109	1.00	79.25
ATOM	12319	C4	NAG	2943	-41.122	30.007	60.961	1.00	79.25
ATOM	12320	O4	NAG	2943	-40.680	28.900	61.773	1.00	91.65
ATOM	12321	C5	NAG	2943	-39.907	30.838	60.548	1.00	77.42
ATOM	12322	O5	NAG	2943	-39.262	31.370	61.724	1.00	70.79
ATOM	12323	C6	NAG	2943	-40.225	32.006	59.623	1.00	76.92
ATOM	12324	O6	NAG	2943	-39.089	32.387	58.856	1.00	74.70
ATOM	12325	C1	NAG	2944	-41.579	27.861	61.987	1.00	97.98
ATOM	12326	C2	NAG	2944	-41.156	27.040	63.225	1.00	99.24
ATOM	12327	N2	NAG	2944	-41.024	27.907	64.387	1.00	100.00
ATOM	12328	C7	NAG	2944	-42.068	28.592	64.852	1.00	98.78
ATOM	12329	O7	NAG	2944	-43.192	28.546	64.340	1.00	97.29
ATOM	12330	C8	NAG	2944	-41.823	29.472	66.072	1.00	95.82
ATOM	12331	C3	NAG	2944	-39.827	26.318	62.969	1.00	98.98
ATOM	12332	O3	NAG	2944	-39.537	25.437	64.048	1.00	95.84
ATOM	12333	C4	NAG	2944	-39.896	25.528	61.663	1.00	97.60
ATOM	12334	O4	NAG	2944	-38.906	26.003	60.756	1.00	95.01
ATOM	12335	C5	NAG	2944	-41.289	25.655	61.033	1.00	97.38
ATOM	12336	O5	NAG	2944	-41.617	27.046	60.799	1.00	97.99
ATOM	12337	C6	NAG	2944	-42.396	25.063	61.889	1.00	96.35
ATOM	12338	O6	NAG	2944	-43.076	24.021	61.205	1.00	98.68
ATOM	12339	C1	NAG	2950	-28.243	21.939	75.470	1.00	60.57
ATOM	12340	C2	NAG	2950	-28.308	21.219	74.128	1.00	66.61
ATOM	12341	N2	NAG	2950	-27.646	22.020	73.115	1.00	74.82
ATOM	12342	C7	NAG	2950	-26.323	22.016	72.990	1.00	74.83
ATOM	12343	O7	NAG	2950	-25.578	21.353	73.711	1.00	77.97
ATOM	12344	C8	NAG	2950	-25.742	22.894	71.894	1.00	73.28
ATOM	12345	C3	NAG	2950	-29.743	20.977	73.655	1.00	65.12
ATOM	12346	O3	NAG	2950	-29.754	19.804	72.861	1.00	62.49
ATOM	12347	C4	NAG	2950	-30.819	20.839	74.754	1.00	63.63
ATOM	12348	O4	NAG	2950	-32.026	21.457	74.269	1.00	75.06
ATOM	12349	C5	NAG	2950	-30.461	21.515	76.075	1.00	58.80
ATOM	12350	O5	NAG	2950	-29.092	21.288	76.402	1.00	57.07
ATOM	12351	C6	NAG	2950	-31.297	21.022	77.241	1.00	52.86
ATOM	12352	O6	NAG	2950	-31.128	19.632	77.451	1.00	59.10
ATOM	12353	C1	NAG	2951	-33.143	20.656	74.141	1.00	78.76
ATOM	12354	C2	NAG	2951	-32.896	19.602	73.064	1.00	80.50
ATOM	12355	N2	NAG	2951	-32.676	20.260	71.783	1.00	80.61
ATOM	12356	C7	NAG	2951	-31.827	19.762	70.884	1.00	80.76
ATOM	12357	O7	NAG	2951	-31.188	18.722	71.055	1.00	77.08
ATOM	12358	C8	NAG	2951	-31.671	20.536	69.583	1.00	78.94
ATOM	12359	C3	NAG	2951	-34.109	18.685	72.993	1.00	82.94
ATOM	12360	O3	NAG	2951	-33.876	17.649	72.056	1.00	89.49
ATOM	12361	C4	NAG	2951	-34.376	18.083	74.371	1.00	86.29
ATOM	12362	O4	NAG	2951	-35.536	17.264	74.329	1.00	84.31
ATOM	12363	C5	NAG	2951	-34.564	19.204	75.386	1.00	88.54
ATOM	12364	O5	NAG	2951	-33.395	20.043	75.406	1.00	83.75

ATOM	12365	C6	NAG	2951	-34.788	18.701	76.808	1.00	93.88
ATOM	12366	O6	NAG	2951	-34.434	17.328	76.947	1.00	95.15
ATOM	12367	C1	NAG	3320	-1.881	36.495	45.280	1.00	58.81
ATOM	12368	C2	NAG	3320	-1.421	37.926	45.599	1.00	65.10
ATOM	12369	N2	NAG	3320	-0.049	37.934	46.074	1.00	59.36
ATOM	12370	C7	NAG	3320	0.963	37.739	45.234	1.00	62.19
ATOM	12371	O7	NAG	3320	0.812	37.521	44.034	1.00	65.01
ATOM	12372	C8	NAG	3320	2.359	37.765	45.826	1.00	69.17
ATOM	12373	C3	NAG	3320	-2.325	38.544	46.681	1.00	73.91
ATOM	12374	O3	NAG	3320	-3.209	39.499	46.116	1.00	76.77
ATOM	12375	C4	NAG	3320	-3.130	37.478	47.436	1.00	77.73
ATOM	12376	O4	NAG	3320	-2.267	36.698	48.258	1.00	89.12
ATOM	12377	C5	NAG	3320	-3.927	36.557	46.488	1.00	74.28
ATOM	12378	O5	NAG	3320	-3.301	36.460	45.195	1.00	63.35
ATOM	12379	C6	NAG	3320	-5.343	37.032	46.250	1.00	70.72
ATOM	12380	O6	NAG	3320	-5.936	36.320	45.175	1.00	75.82
ATOM	12381	C1	NAG	3371	-26.286	11.344	34.222	1.00	75.71
ATOM	12382	C2	NAG	3371	-26.937	10.821	32.920	1.00	82.01
ATOM	12383	N2	NAG	3371	-28.059	11.665	32.528	1.00	89.89
ATOM	12384	C7	NAG	3371	-28.786	11.386	31.445	1.00	90.14
ATOM	12385	O7	NAG	3371	-28.555	10.430	30.698	1.00	87.69
ATOM	12386	C8	NAG	3371	-29.945	12.325	31.135	1.00	88.96
ATOM	12387	C3	NAG	3371	-27.427	9.394	33.114	1.00	84.40
ATOM	12388	O3	NAG	3371	-26.314	8.519	33.256	1.00	85.28
ATOM	12389	C4	NAG	3371	-28.335	9.333	34.352	1.00	83.52
ATOM	12390	O4	NAG	3371	-29.511	10.106	34.132	1.00	81.09
ATOM	12391	C5	NAG	3371	-27.610	9.870	35.581	1.00	79.81
ATOM	12392	O5	NAG	3371	-27.173	11.224	35.347	1.00	73.91
ATOM	12393	C6	NAG	3371	-26.394	9.050	35.976	1.00	83.96
ATOM	12394	O6	NAG	3371	-26.585	7.669	35.698	1.00	82.89
ATOM	12395	C1	NAG	3559	-33.668	30.624	32.064	1.00	62.14
ATOM	12396	C2	NAG	3559	-35.195	30.652	31.850	1.00	66.37
ATOM	12397	N2	NAG	3559	-35.672	32.022	31.797	1.00	67.74
ATOM	12398	C7	NAG	3559	-36.967	32.286	31.642	1.00	70.97
ATOM	12399	O7	NAG	3559	-37.829	31.411	31.561	1.00	72.13
ATOM	12400	C8	NAG	3559	-37.374	33.753	31.590	1.00	76.50
ATOM	12401	C3	NAG	3559	-35.980	29.866	32.922	1.00	68.96
ATOM	12402	O3	NAG	3559	-35.865	28.465	32.696	1.00	71.59
ATOM	12403	C4	NAG	3559	-35.544	30.204	34.358	1.00	68.75
ATOM	12404	O4	NAG	3559	-36.338	31.296	34.876	1.00	68.38
ATOM	12405	C5	NAG	3559	-34.053	30.571	34.420	1.00	67.52
ATOM	12406	O5	NAG	3559	-33.340	29.986	33.306	1.00	62.16
ATOM	12407	C6	NAG	3559	-33.389	30.072	35.695	1.00	66.09
ATOM	12408	O6	NAG	3559	-34.165	30.395	36.843	1.00	70.79
ATOM	12409	C1	NAG	3560	-37.064	31.072	36.043	1.00	70.26
ATOM	12410	C2	NAG	3560	-38.479	30.583	35.683	1.00	69.35
ATOM	12411	N2	NAG	3560	-39.138	31.473	34.744	1.00	67.41
ATOM	12412	C7	NAG	3560	-39.953	30.973	33.814	1.00	68.51
ATOM	12413	O7	NAG	3560	-40.176	29.765	33.691	1.00	62.65
ATOM	12414	C8	NAG	3560	-40.614	31.959	32.866	1.00	70.42
ATOM	12415	C3	NAG	3560	-39.353	30.394	36.919	1.00	68.86
ATOM	12416	O3	NAG	3560	-39.499	29.011	37.192	1.00	69.13
ATOM	12417	C4	NAG	3560	-38.745	31.089	38.126	1.00	70.98
ATOM	12418	O4	NAG	3560	-39.755	31.271	39.113	1.00	64.48
ATOM	12419	C5	NAG	3560	-38.182	32.446	37.718	1.00	71.95
ATOM	12420	O5	NAG	3560	-37.085	32.309	36.782	1.00	71.84
ATOM	12421	C6	NAG	3560	-37.645	33.218	38.908	1.00	74.08

ATOM	12422	O6	NAG	3560	-38.687	33.562	39.812	1.00	76.31
ATOM	12423	C1	NAG	3654	-5.598	24.313	74.525	1.00	83.29
ATOM	12424	C2	NAG	3654	-4.426	23.375	74.827	1.00	86.95
ATOM	12425	N2	NAG	3654	-3.953	23.585	76.186	1.00	89.66
ATOM	12426	C7	NAG	3654	-4.696	23.226	77.230	1.00	92.33
ATOM	12427	O7	NAG	3654	-5.806	22.697	77.126	1.00	96.53
ATOM	12428	C8	NAG	3654	-4.112	23.496	78.607	1.00	91.62
ATOM	12429	C3	NAG	3654	-3.295	23.647	73.847	1.00	90.23
ATOM	12430	O3	NAG	3654	-3.723	23.338	72.527	1.00	94.49
ATOM	12431	C4	NAG	3654	-2.873	25.114	73.924	1.00	88.83
ATOM	12432	O4	NAG	3654	-2.188	25.380	75.177	1.00	90.37
ATOM	12433	C5	NAG	3654	-4.088	26.048	73.728	1.00	85.47
ATOM	12434	O5	NAG	3654	-5.189	25.697	74.607	1.00	85.24
ATOM	12435	C6	NAG	3654	-4.634	26.046	72.308	1.00	82.09
ATOM	12436	O6	NAG	3654	-3.628	26.370	71.360	1.00	79.39
ATOM	12437	C1	NAG	3655	-0.829	25.062	75.155	1.00	95.54
ATOM	12438	C2	NAG	3655	-0.307	24.486	76.493	1.00	96.67
ATOM	12439	N2	NAG	3655	-1.162	23.417	76.979	1.00	100.00
ATOM	12440	C7	NAG	3655	-0.631	22.326	77.541	1.00	100.00
ATOM	12441	O7	NAG	3655	0.586	22.164	77.691	1.00	100.00
ATOM	12442	C8	NAG	3655	-1.597	21.253	78.018	1.00	100.00
ATOM	12443	C3	NAG	3655	-0.136	25.564	77.567	1.00	95.58
ATOM	12444	O3	NAG	3655	0.529	25.020	78.700	1.00	88.34
ATOM	12445	C4	NAG	3655	0.694	26.697	76.999	1.00	95.97
ATOM	12446	O4	NAG	3655	0.828	27.731	77.966	1.00	96.48
ATOM	12447	C5	NAG	3655	0.023	27.239	75.740	1.00	97.79
ATOM	12448	O5	NAG	3655	-0.074	26.207	74.735	1.00	96.50
ATOM	12449	C6	NAG	3655	0.832	28.364	75.128	1.00	100.00
ATOM	12450	O6	NAG	3655	2.200	27.996	74.994	1.00	99.11
ATOM	12451	MN	MN	4001	17.648	36.137	40.669	1.00	17.00
ATOM	12452	MN	MN	4002	18.041	34.268	47.546	1.00	30.77
ATOM	12453	MN	MN	4003	17.030	38.845	35.188	1.00	28.34
ATOM	12454	MN	MN	4004	-6.526	67.846	31.051	1.00	39.08
ATOM	12455	MN	MN	4005	-17.111	59.557	26.610	1.00	46.93
ATOM	12456	MN	MN	4006	-19.050	56.463	14.070	1.00	55.22
ATOM	12457	MN	MN	4007	-10.689	59.486	3.114	1.00	38.15
ATOM	12458	MN	MN	4008	-69.161	46.810	4.382	1.00	37.71
ATOM	12459	N	ARG	5001	18.051	44.794	45.159	1.00	34.43
ATOM	12460	CA	ARG	5001	17.208	45.352	44.114	1.00	28.14
ATOM	12461	CB	ARG	5001	17.355	46.866	44.004	1.00	27.48
ATOM	12462	CG	ARG	5001	16.821	47.640	45.193	1.00	30.15
ATOM	12463	CD	ARG	5001	16.675	49.132	44.889	1.00	25.58
ATOM	12464	NE	ARG	5001	15.604	49.402	43.934	1.00	28.89
ATOM	12465	CZ	ARG	5001	15.374	50.586	43.373	1.00	37.36
ATOM	12466	NH1	ARG	5001	16.142	51.631	43.667	1.00	37.45
ATOM	12467	NH2	ARG	5001	14.411	50.711	42.467	1.00	41.68
ATOM	12468	C	ARG	5001	17.803	44.669	42.886	1.00	29.22
ATOM	12469	O	ARG	5001	19.024	44.588	42.755	1.00	26.11
ATOM	12470	N	GLY	5002	16.951	44.101	42.038	1.00	37.97
ATOM	12471	CA	GLY	5002	17.421	43.400	40.847	1.00	34.71
ATOM	12472	C	GLY	5002	17.854	41.980	41.171	1.00	29.22
ATOM	12473	O	GLY	5002	17.162	41.269	41.904	1.00	31.47
ATOM	12474	N	ASP	5003	18.988	41.562	40.619	1.00	22.58
ATOM	12475	CA	ASP	5003	19.522	40.229	40.875	1.00	20.34
ATOM	12476	CB	ASP	5003	20.394	39.804	39.699	1.00	15.88
ATOM	12477	CG	ASP	5003	20.616	38.308	39.646	1.00	20.37
ATOM	12478	OD1	ASP	5003	19.692	37.560	40.021	1.00	17.02

ATOM	12479	OD2	ASP	5003	21.710	37.874	39.227	1.00	18.58
ATOM	12480	C	ASP	5003	20.347	40.259	42.176	1.00	23.10
ATOM	12481	O	ASP	5003	21.478	39.773	42.228	1.00	23.76
ATOM	12482	N	PHE	5004	19.758	40.845	43.214	1.00	25.80
ATOM	12483	CA	PHE	5004	20.379	41.011	44.525	1.00	37.44
ATOM	12484	CB	PHE	5004	20.820	39.664	45.112	1.00	48.16
ATOM	12485	CG	PHE	5004	21.651	39.782	46.380	1.00	58.10
ATOM	12486	CD1	PHE	5004	23.038	39.658	46.333	1.00	59.11
ATOM	12487	CD2	PHE	5004	21.046	39.990	47.619	1.00	62.65
ATOM	12488	CE1	PHE	5004	23.808	39.743	47.493	1.00	61.44
ATOM	12489	CE2	PHE	5004	21.811	40.078	48.784	1.00	63.45
ATOM	12490	CZ	PHE	5004	23.193	39.951	48.718	1.00	64.02
ATOM	12491	C	PHE	5004	19.302	41.630	45.406	1.00	41.23
ATOM	12492	O	PHE	5004	18.165	41.150	45.406	1.00	47.66
ATOM	12493	N	VAL	5005	19.645	42.682	46.155	1.00	39.04
ATOM	12494	CN	VAL	5005	20.380	43.634	45.454	1.00	39.28
ATOM	12495	CA	VAL	5005	18.653	43.350	47.019	1.00	39.45
ATOM	12496	CB	VAL	5005	19.282	44.444	47.927	1.00	41.14
ATOM	12497	CG1	VAL	5005	18.323	44.811	49.044	1.00	37.72
ATOM	12498	CG2	VAL	5005	20.595	43.954	48.524	1.00	50.20
ATOM	12499	C	VAL	5005	17.594	43.936	46.073	1.00	42.33
ATOM	12500	O	VAL	5005	16.399	43.612	46.172	1.00	44.53
END									